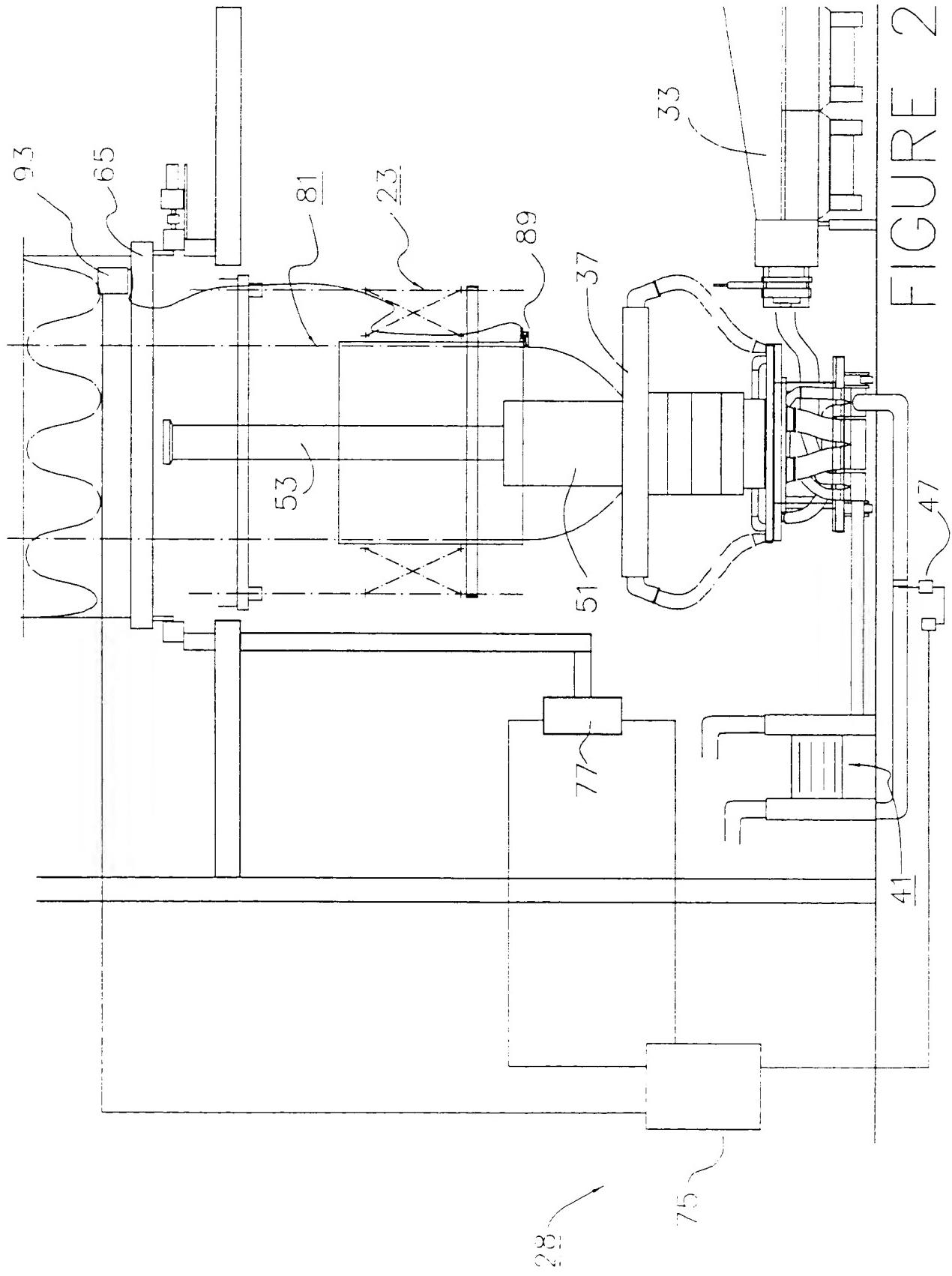


FIGURE 1

FIGURE 2



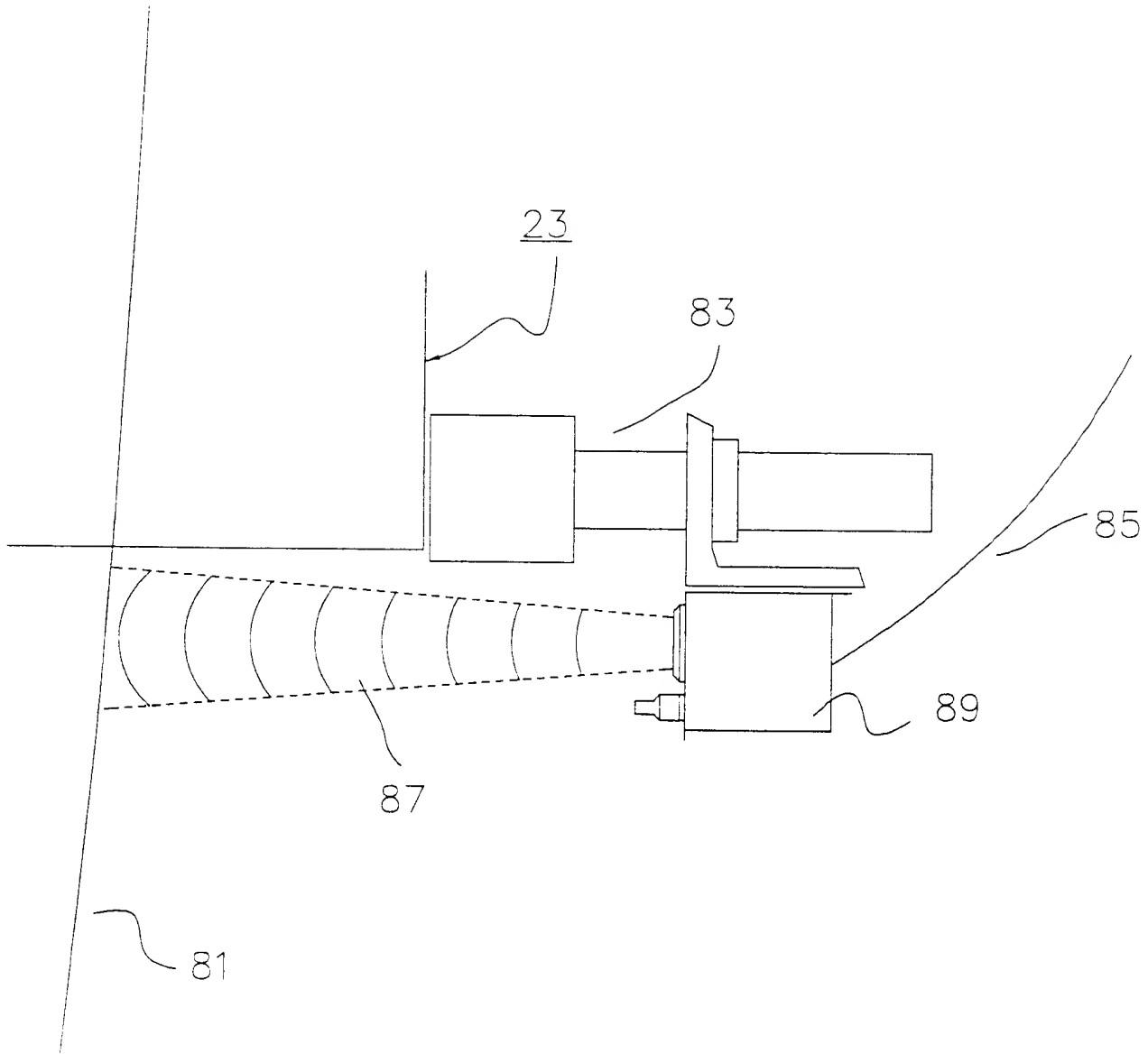


FIGURE 3

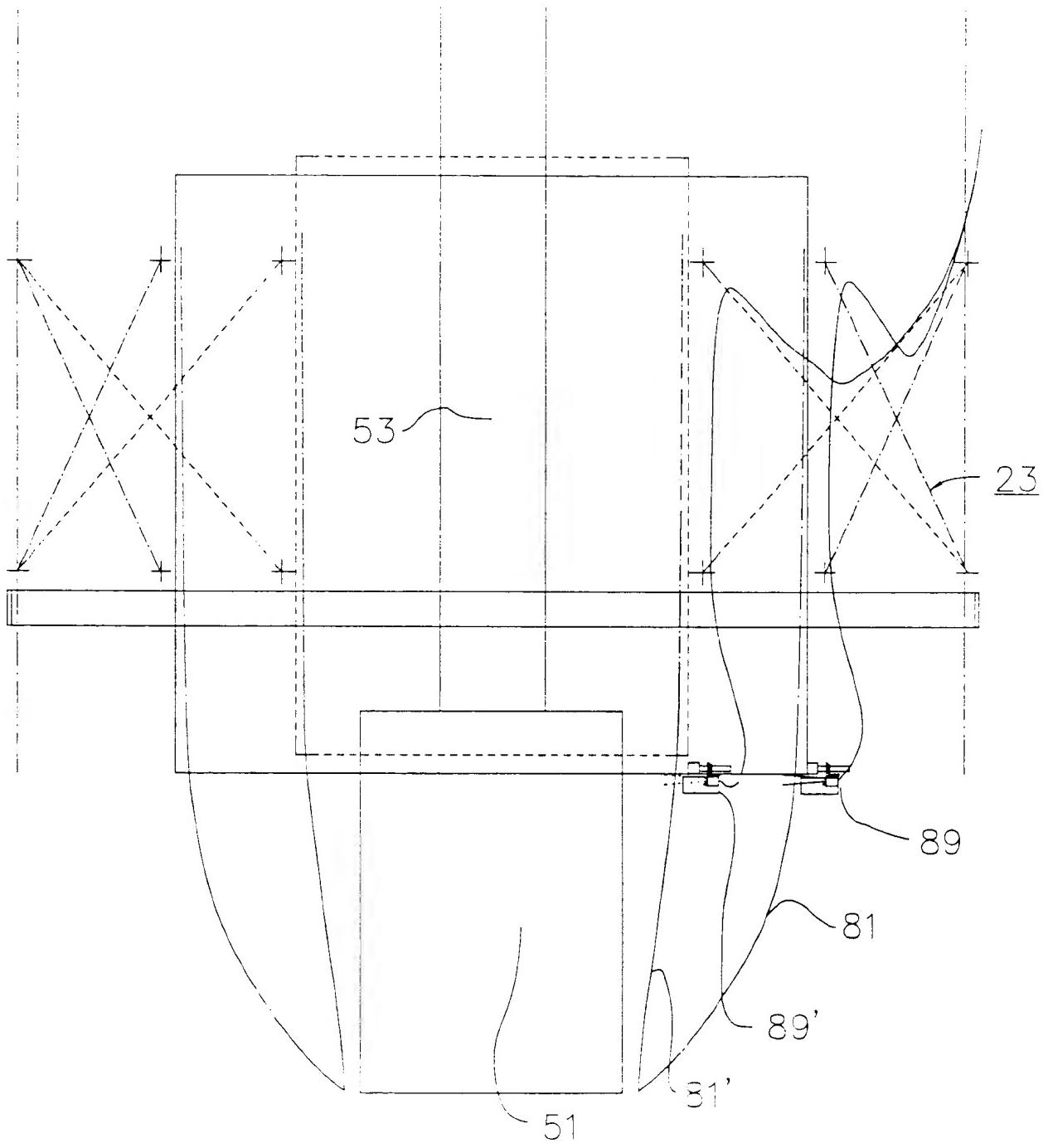
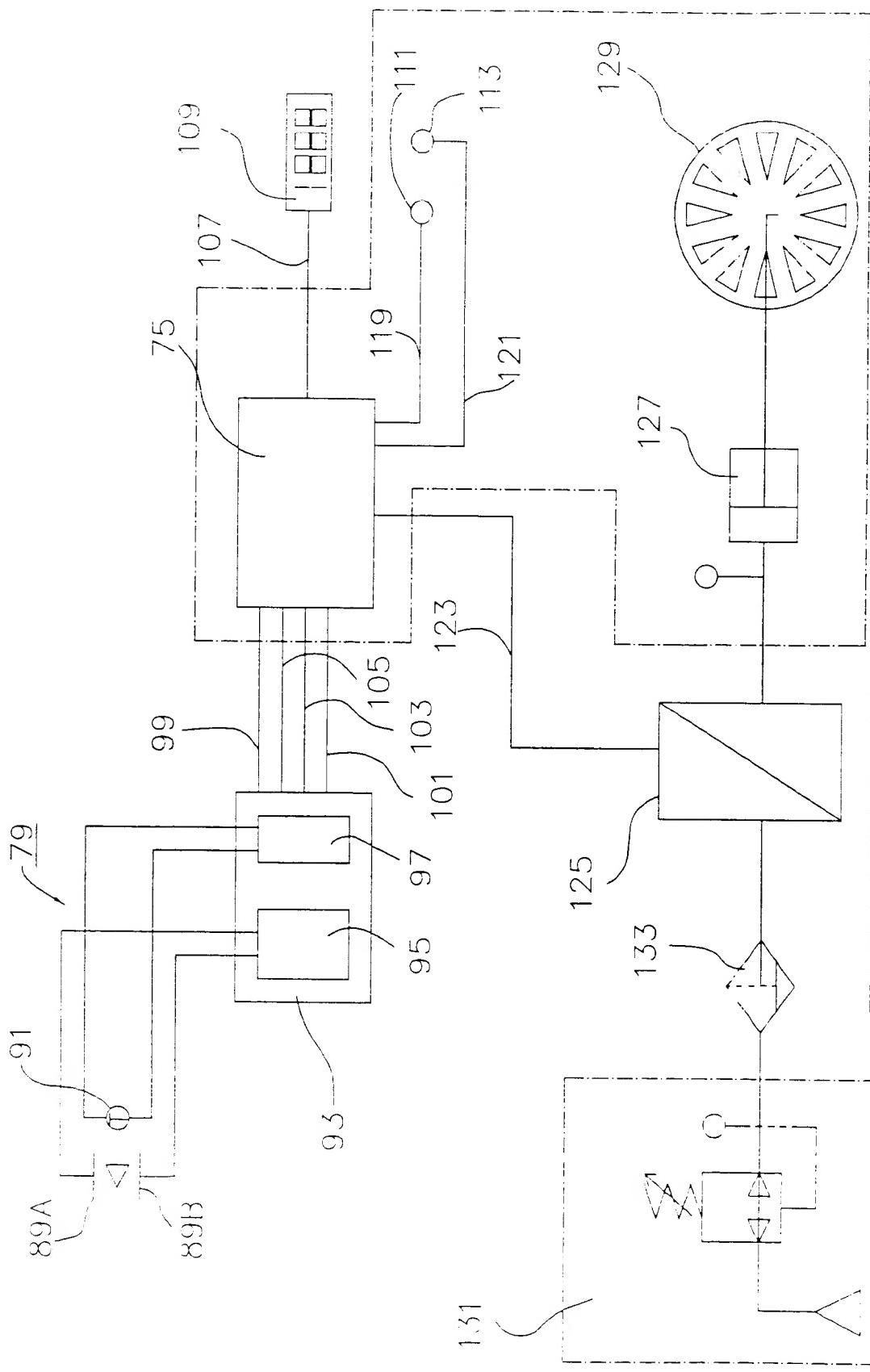
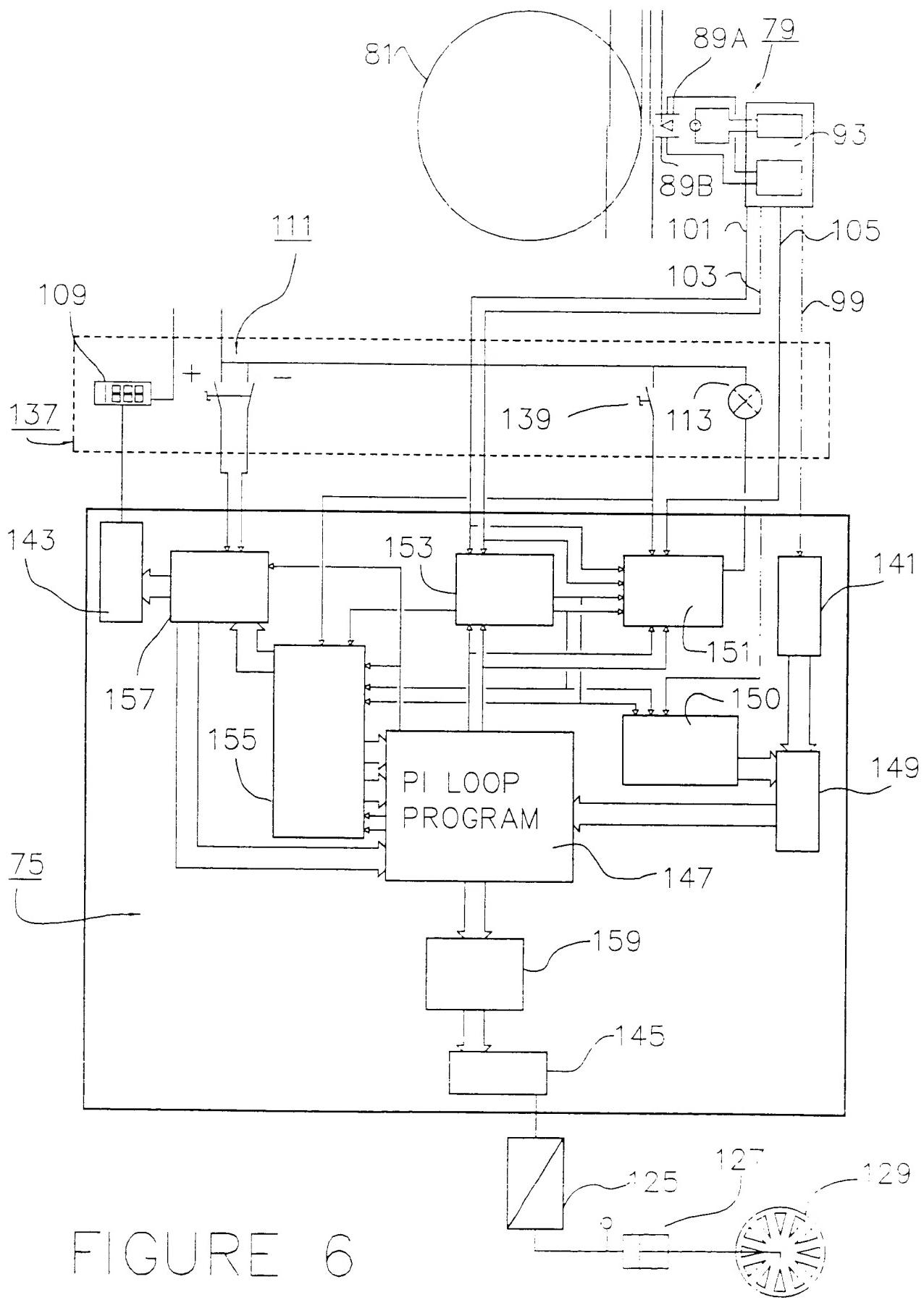


FIGURE 4

FIGURE 5





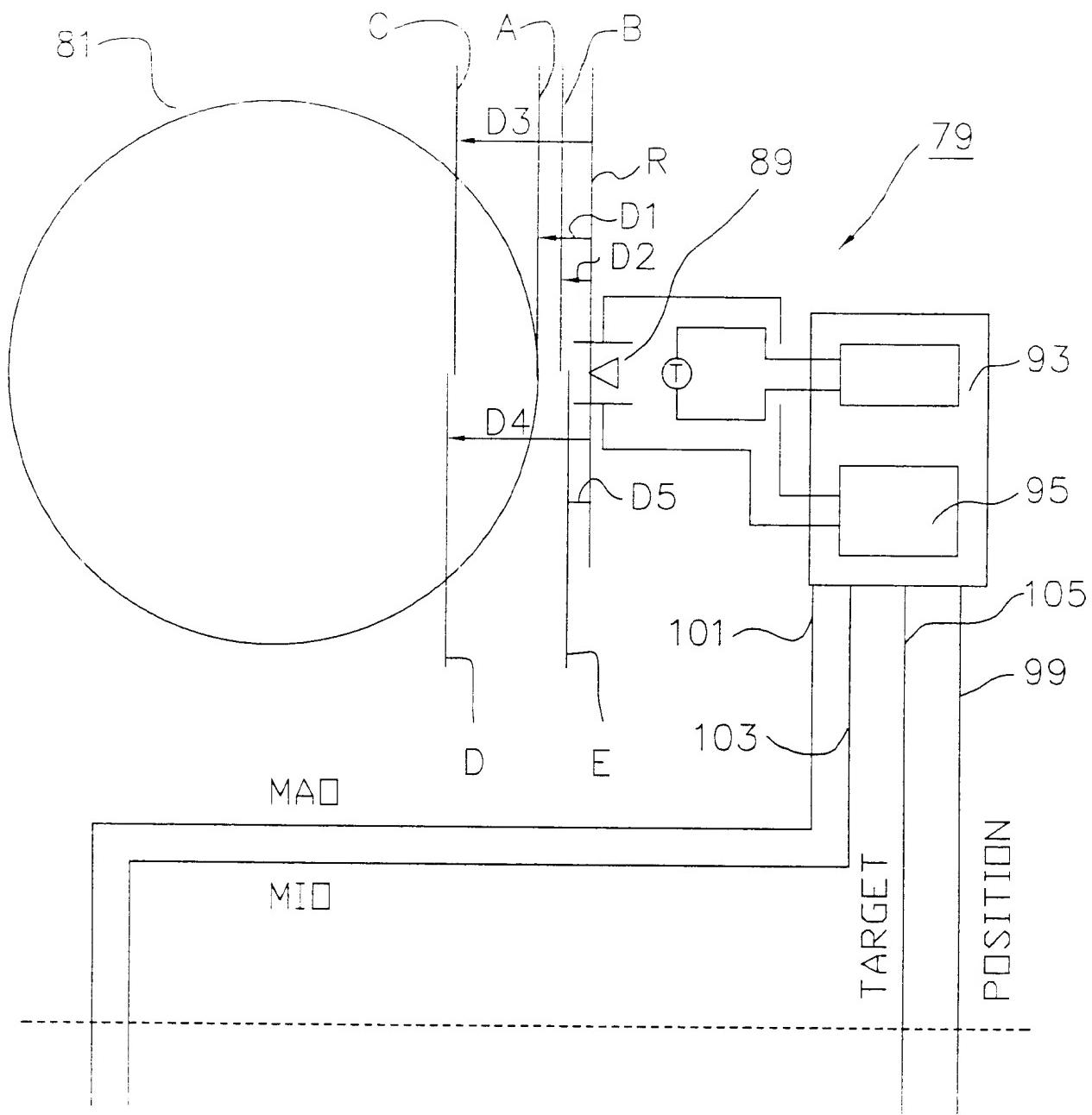


FIGURE 7A

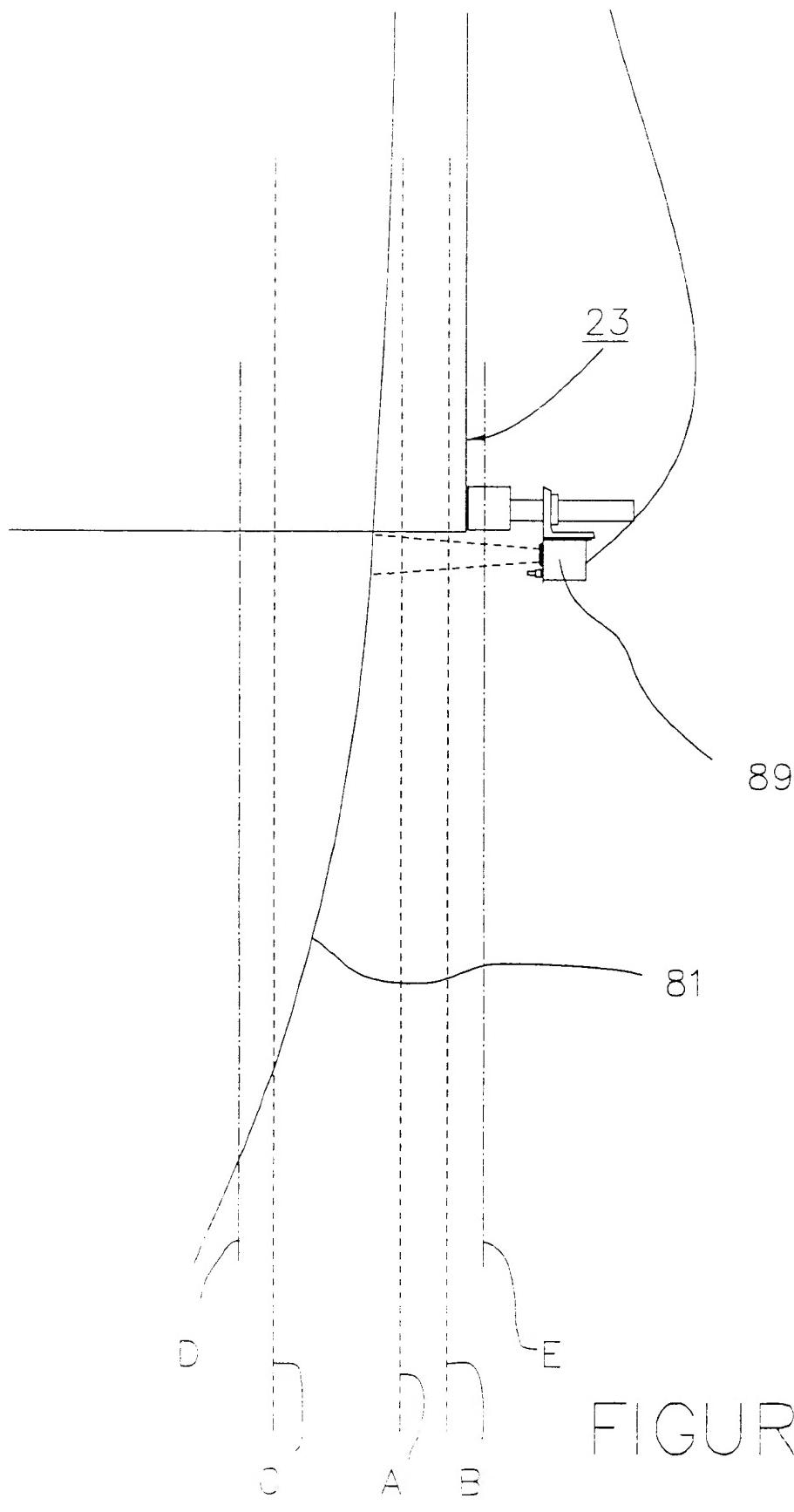


FIGURE 7B

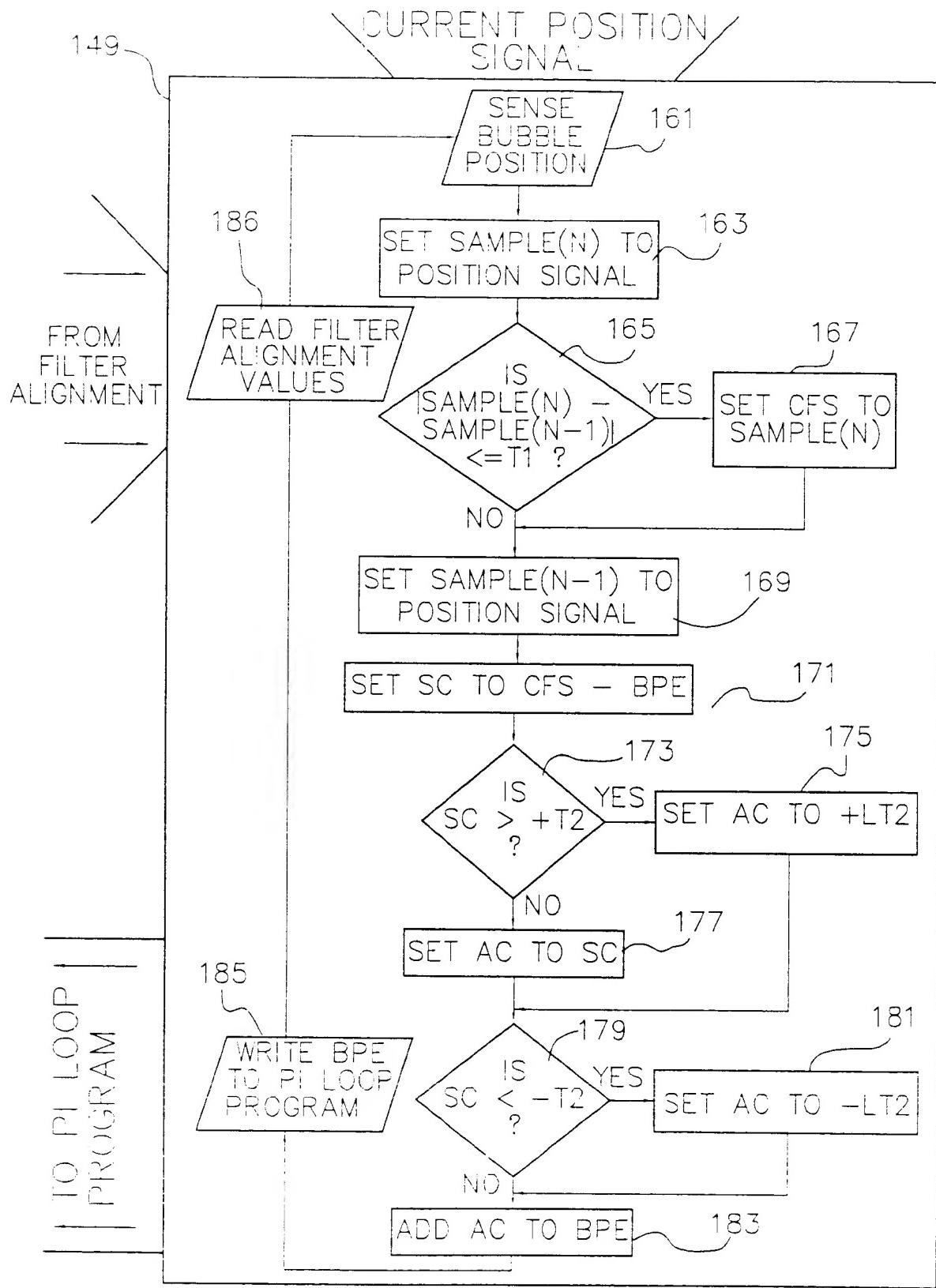


FIGURE 8A

S-IBC1 FILTER SIMULATION
INPUT = RAMPING LINE WITH RANDOM NOISE

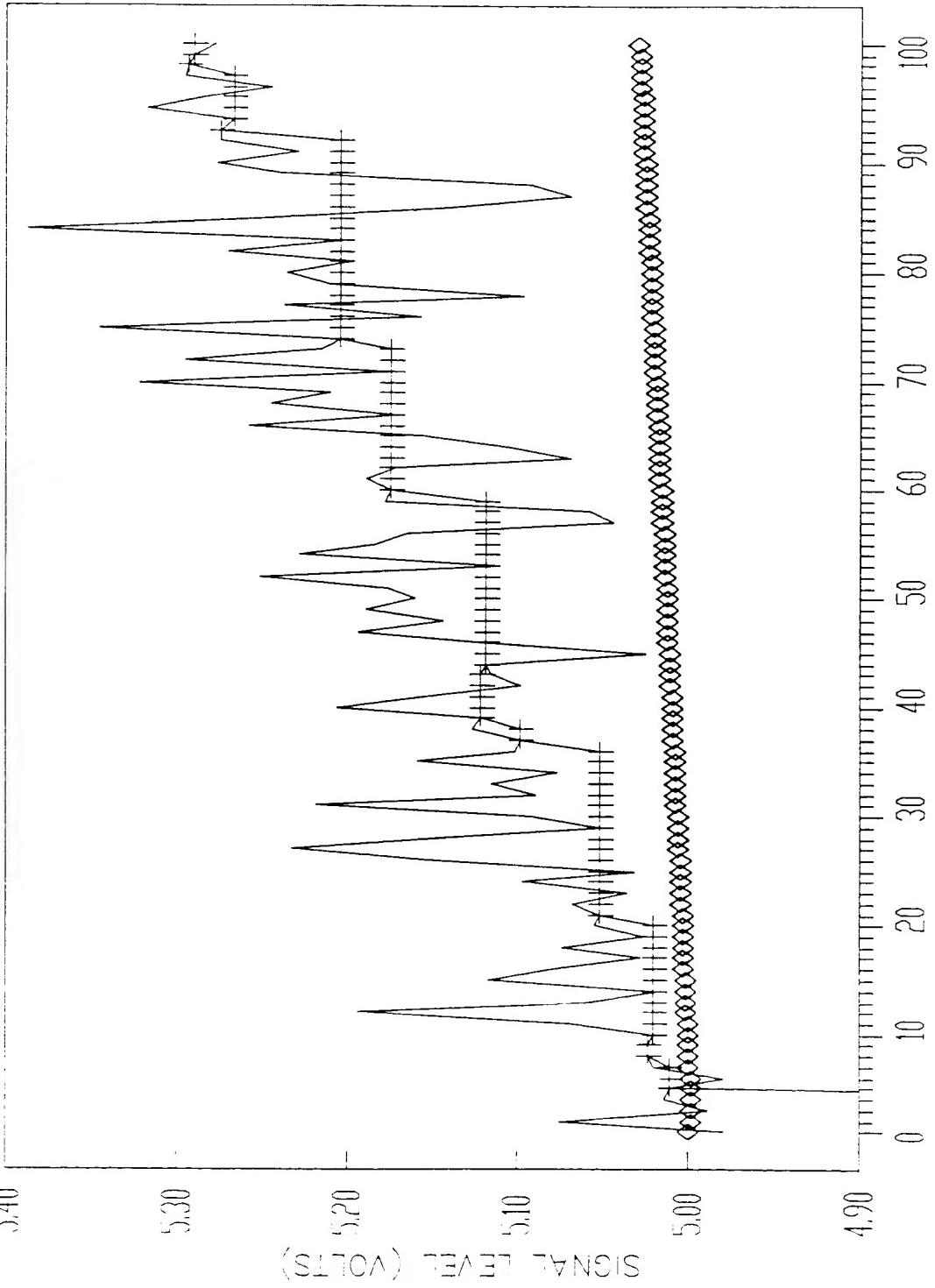


FIGURE 8B
— INPUT + CFS ♦ BPE

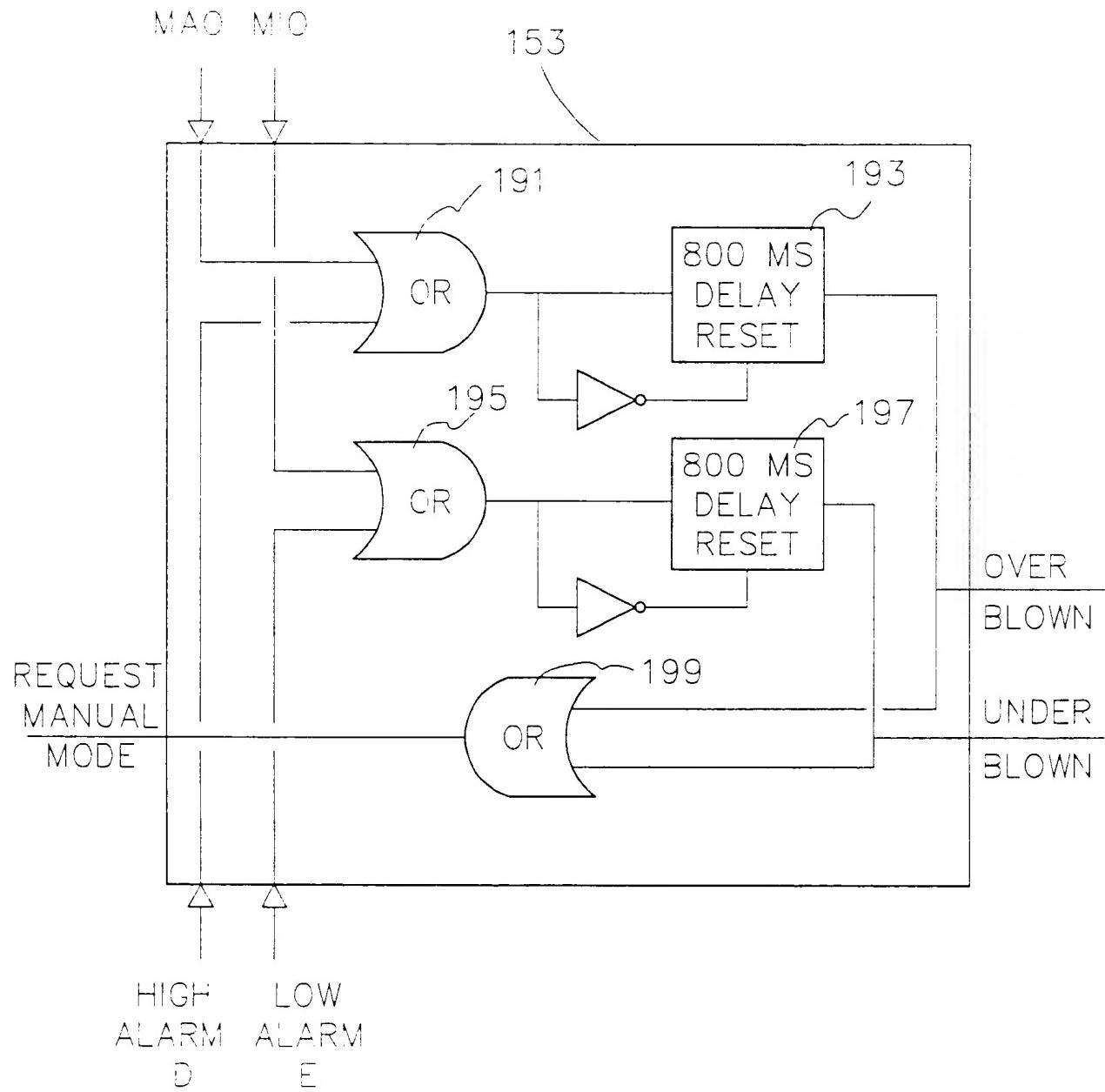
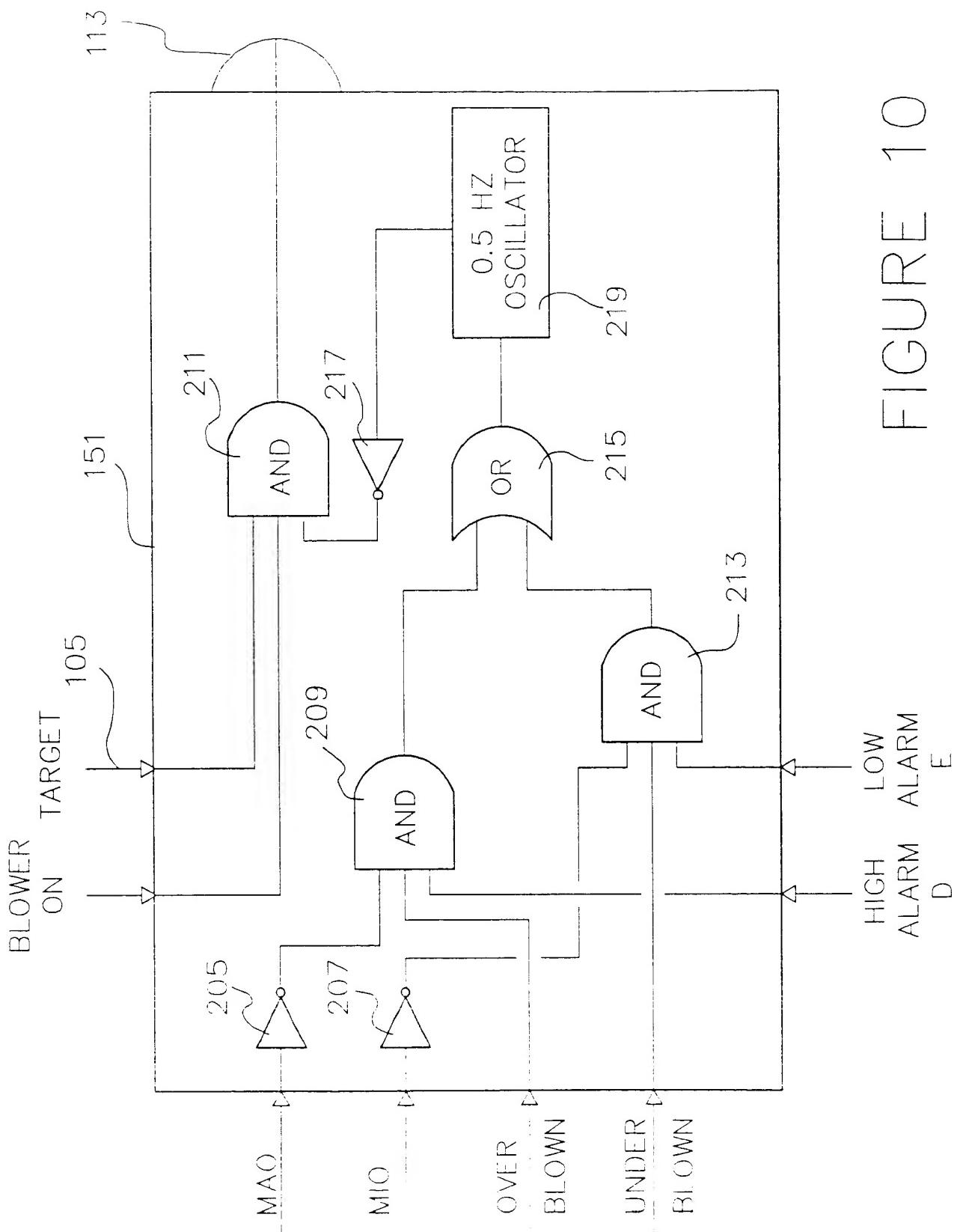


FIGURE 9

FIGURE 10



155

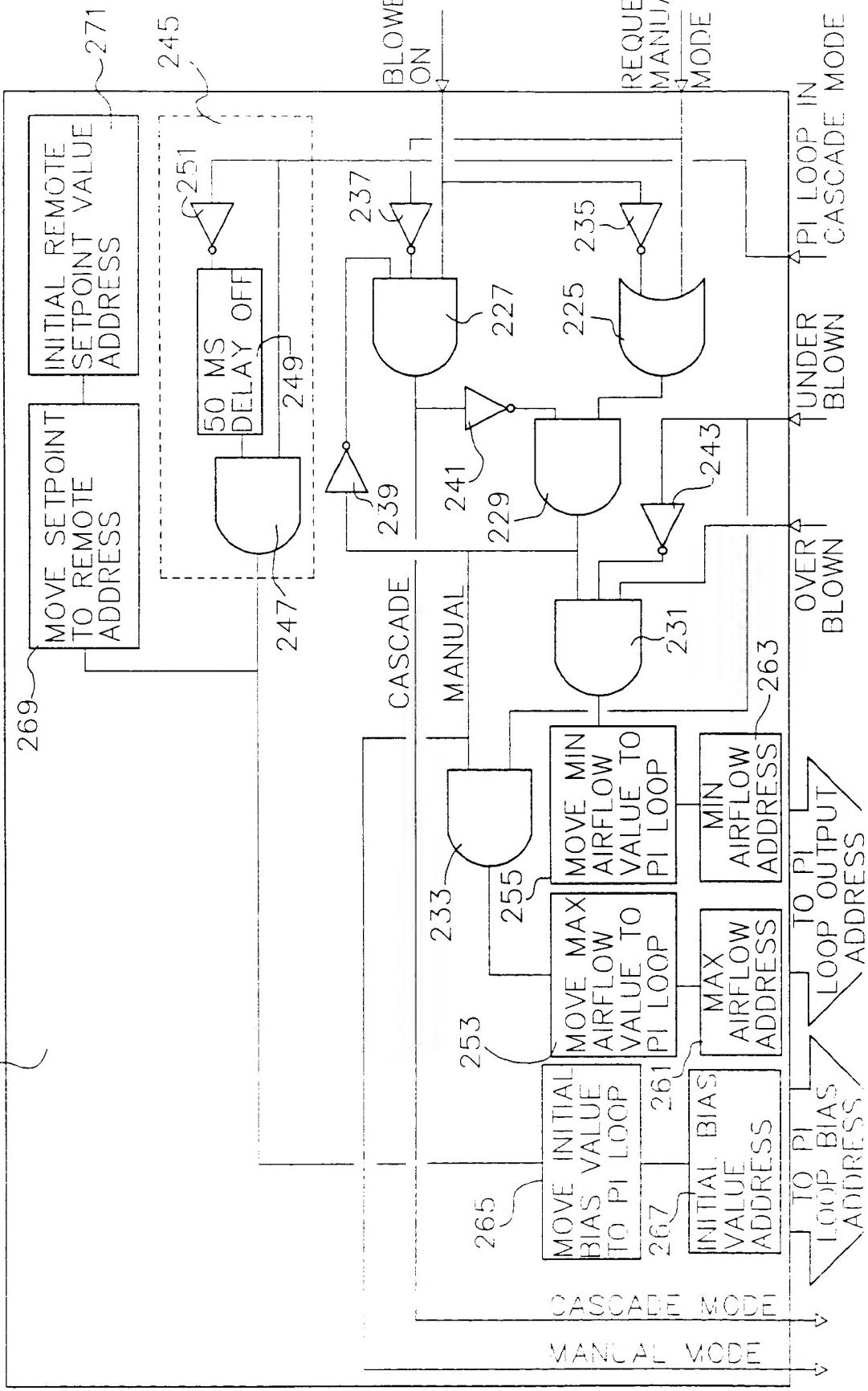


FIGURE 11

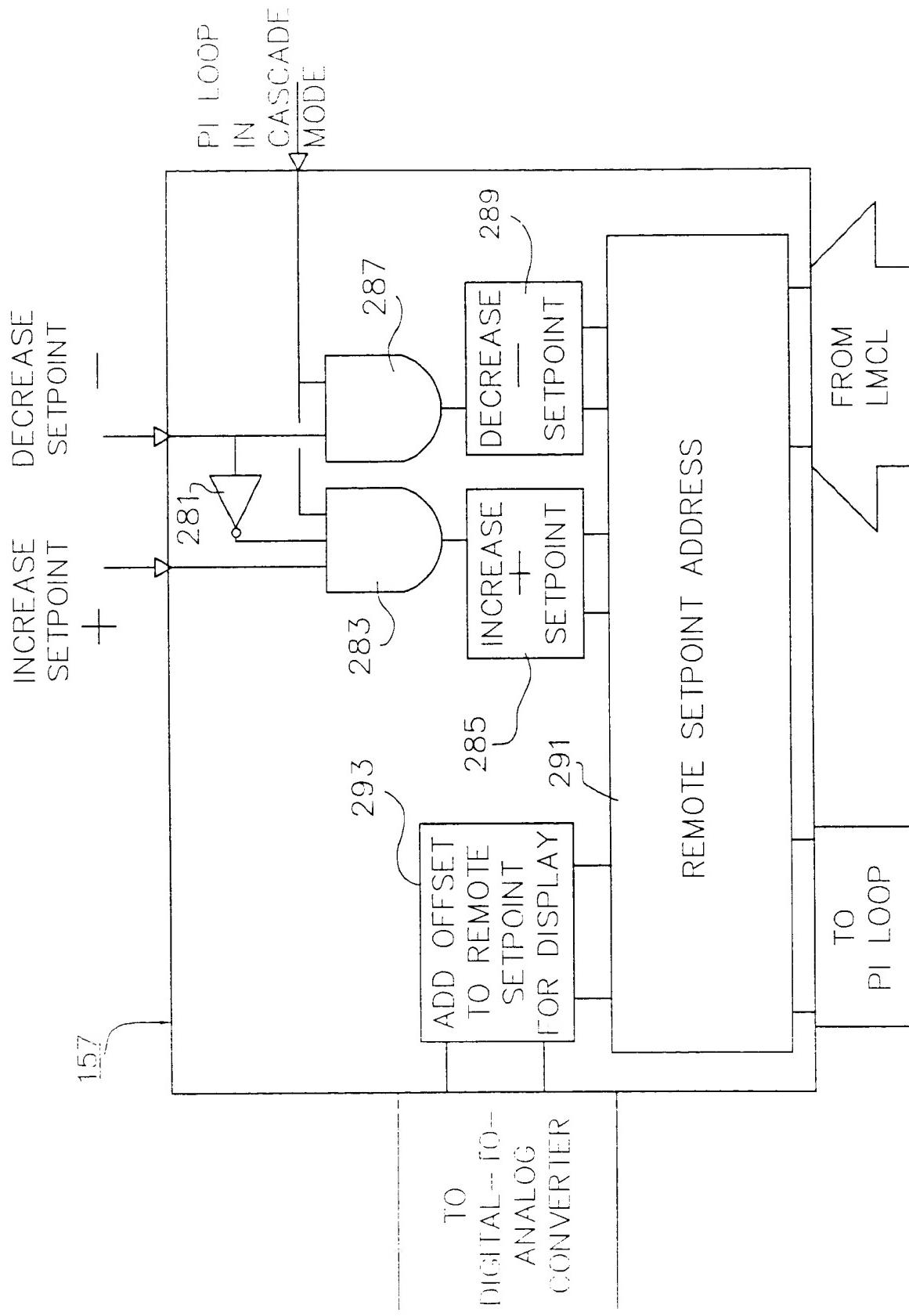


FIGURE 12

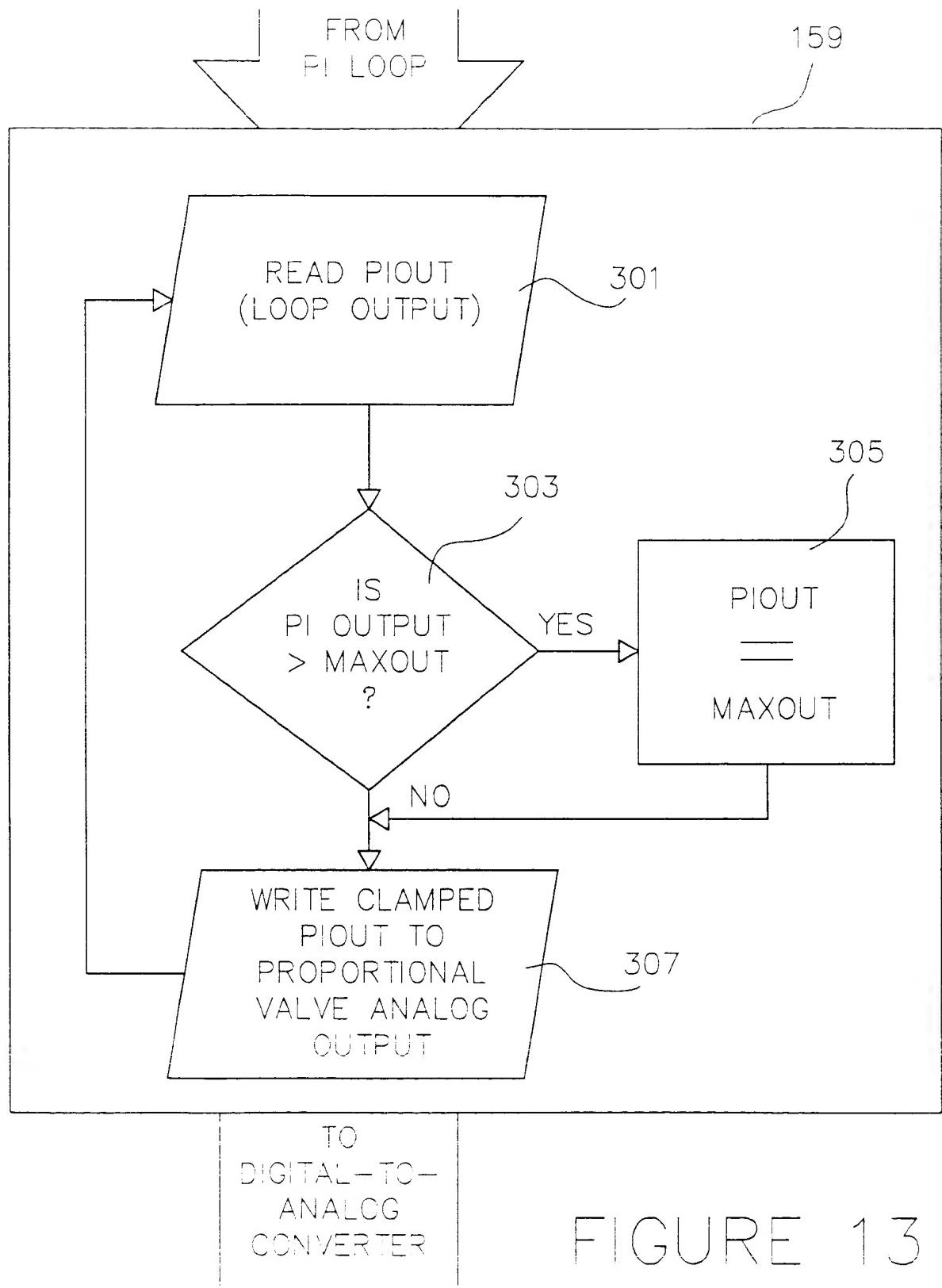


FIGURE 13

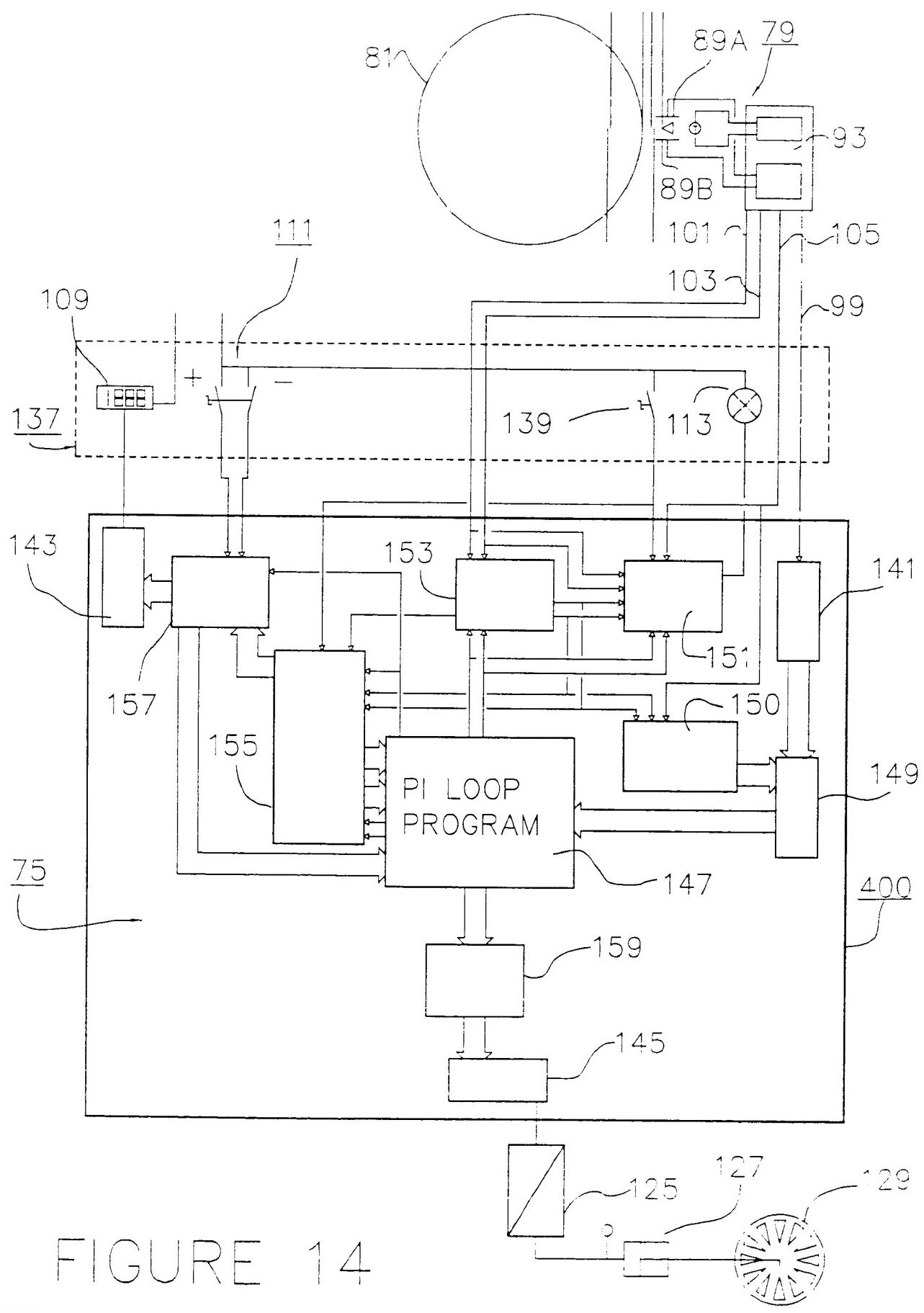


FIGURE 14

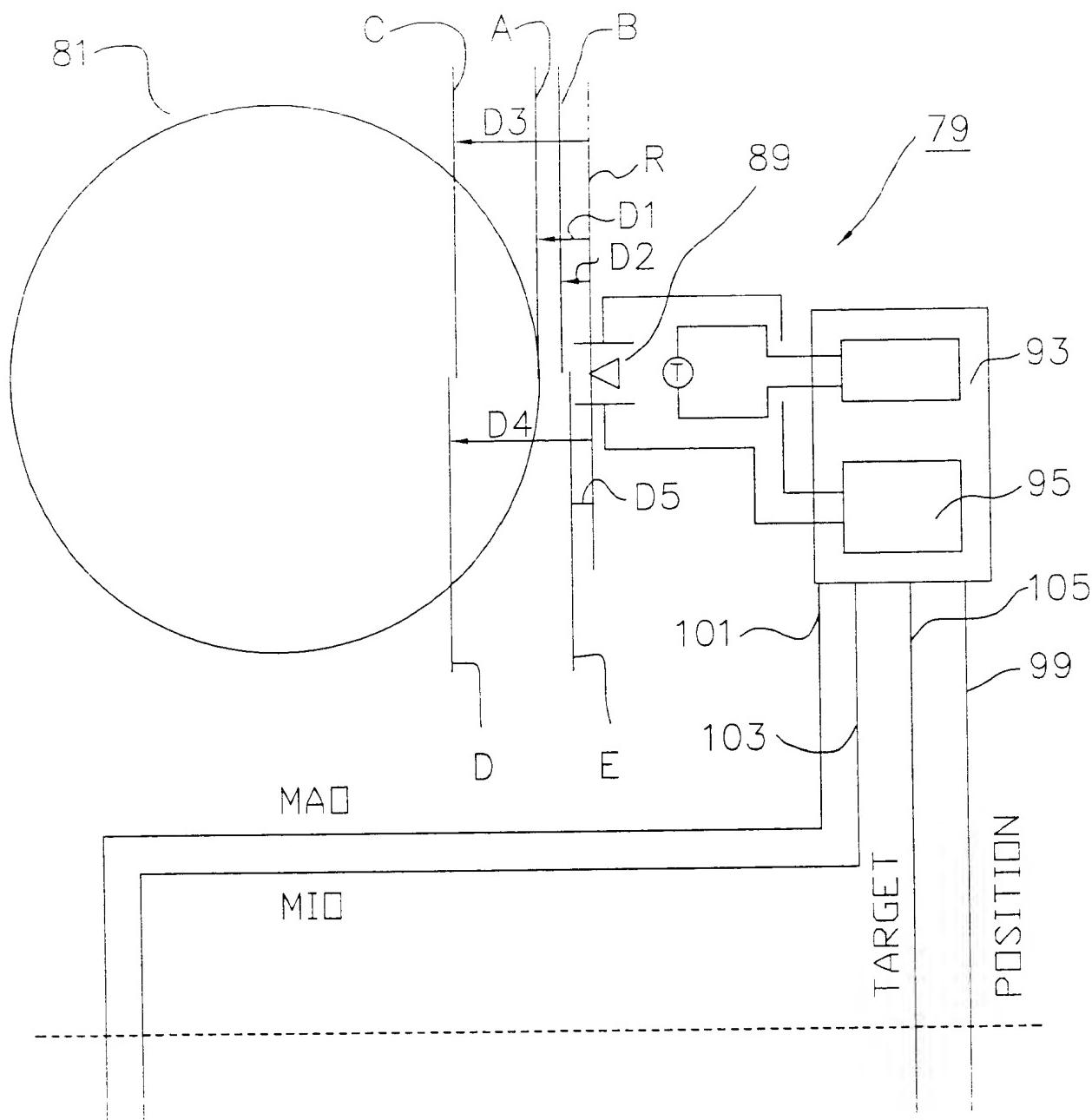


FIGURE 15

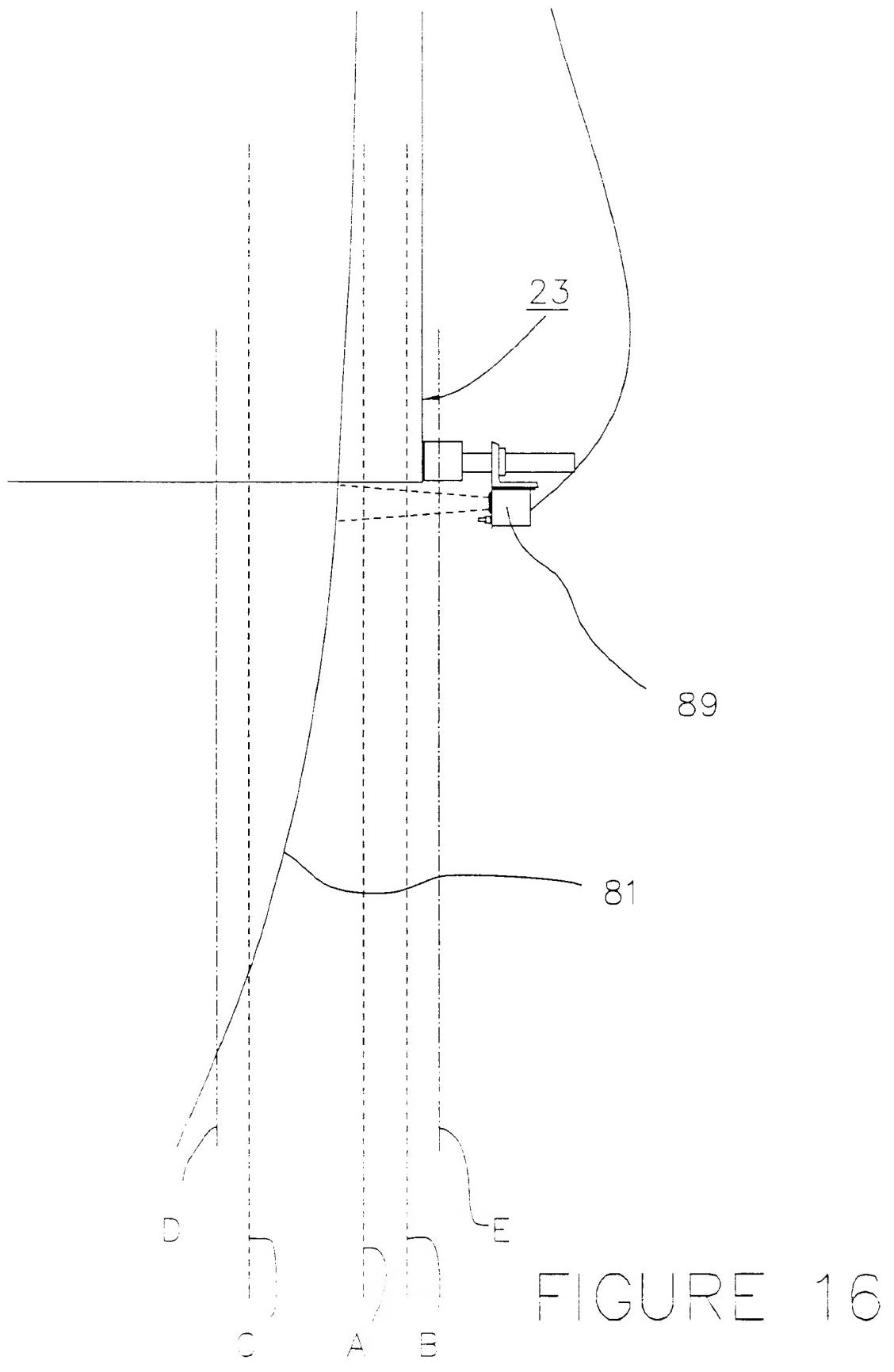


FIGURE 16

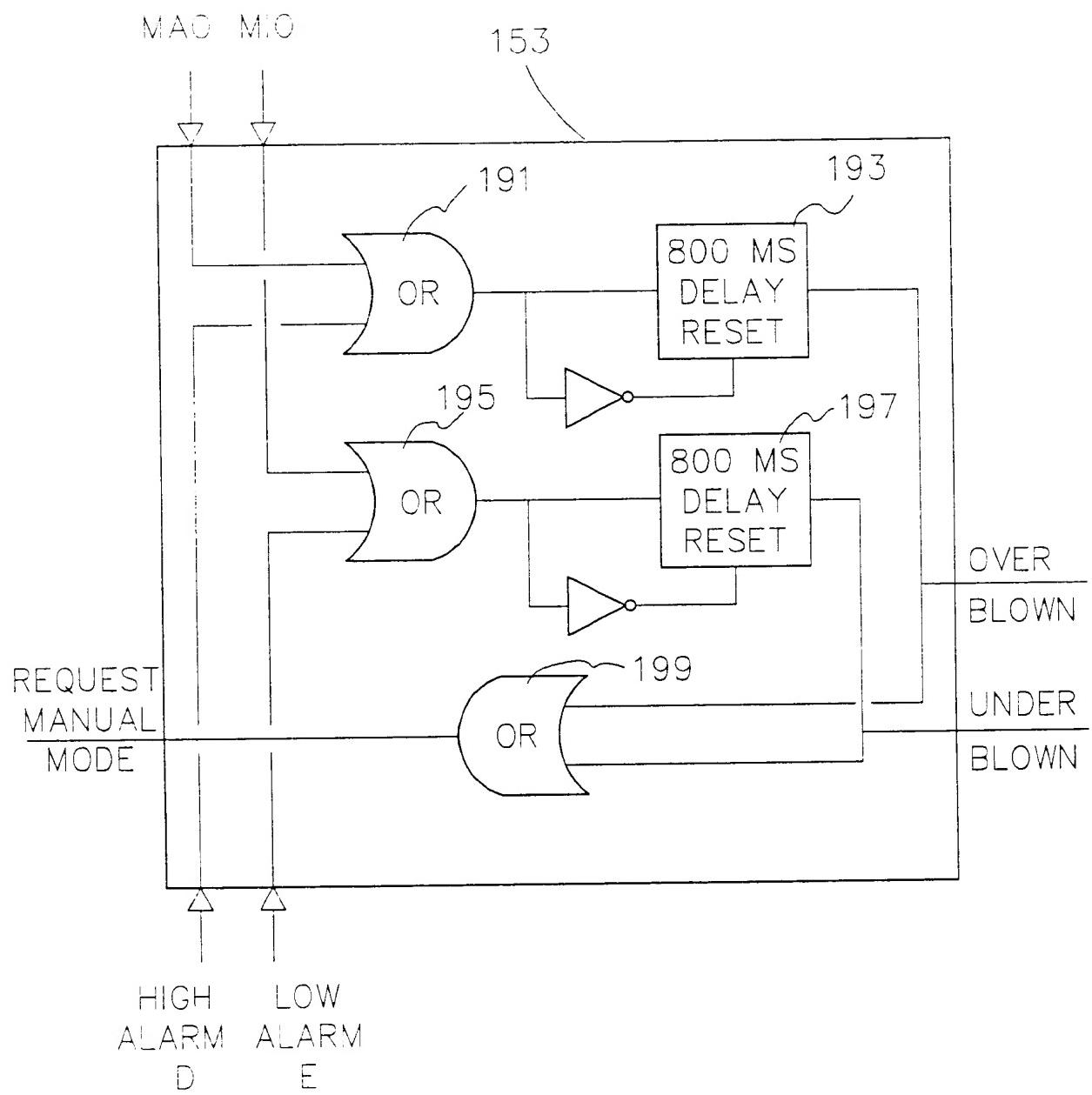


FIGURE 17

FIGURE 18

HIGH ALARM D

LOW ALARM E

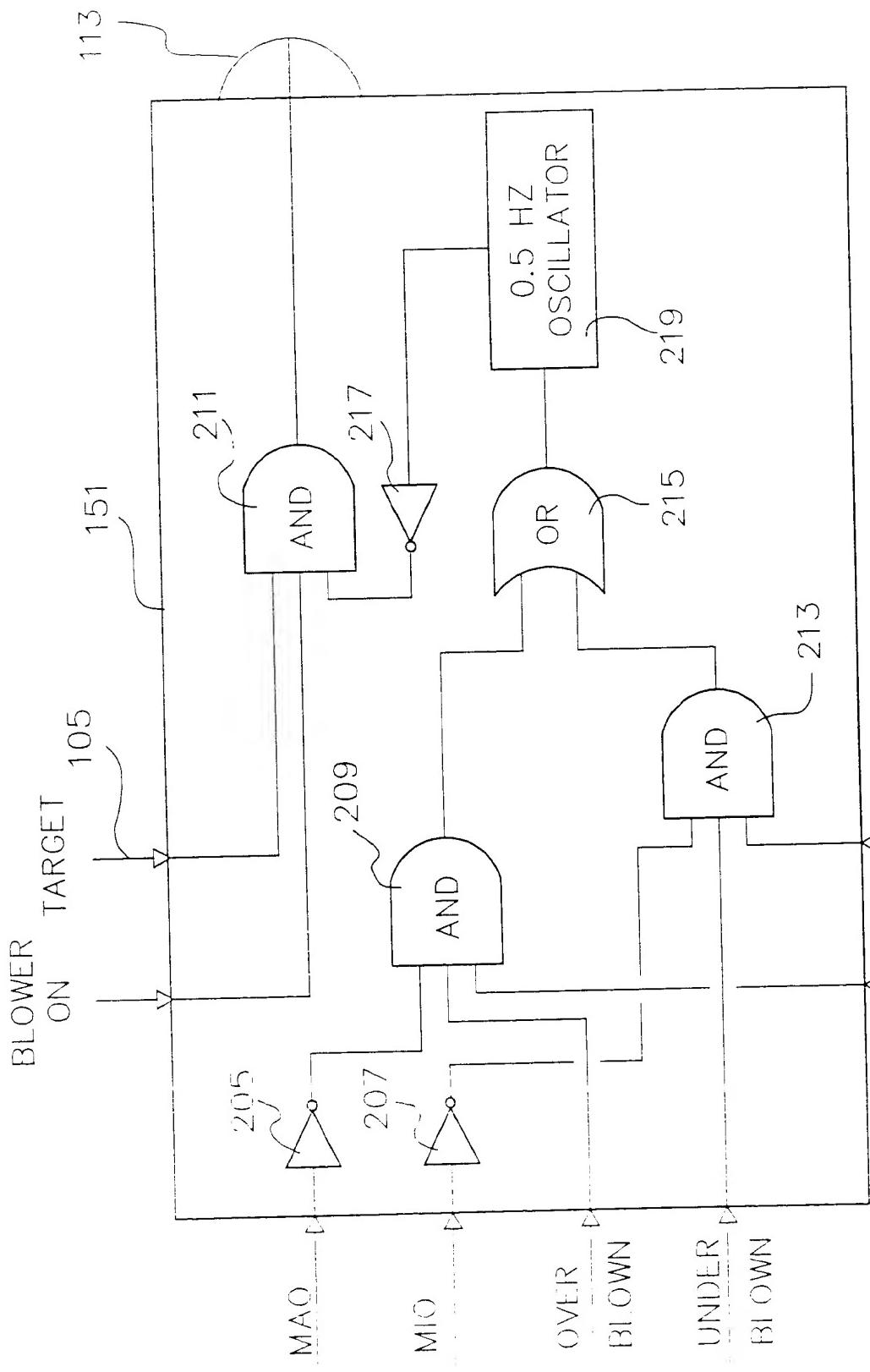
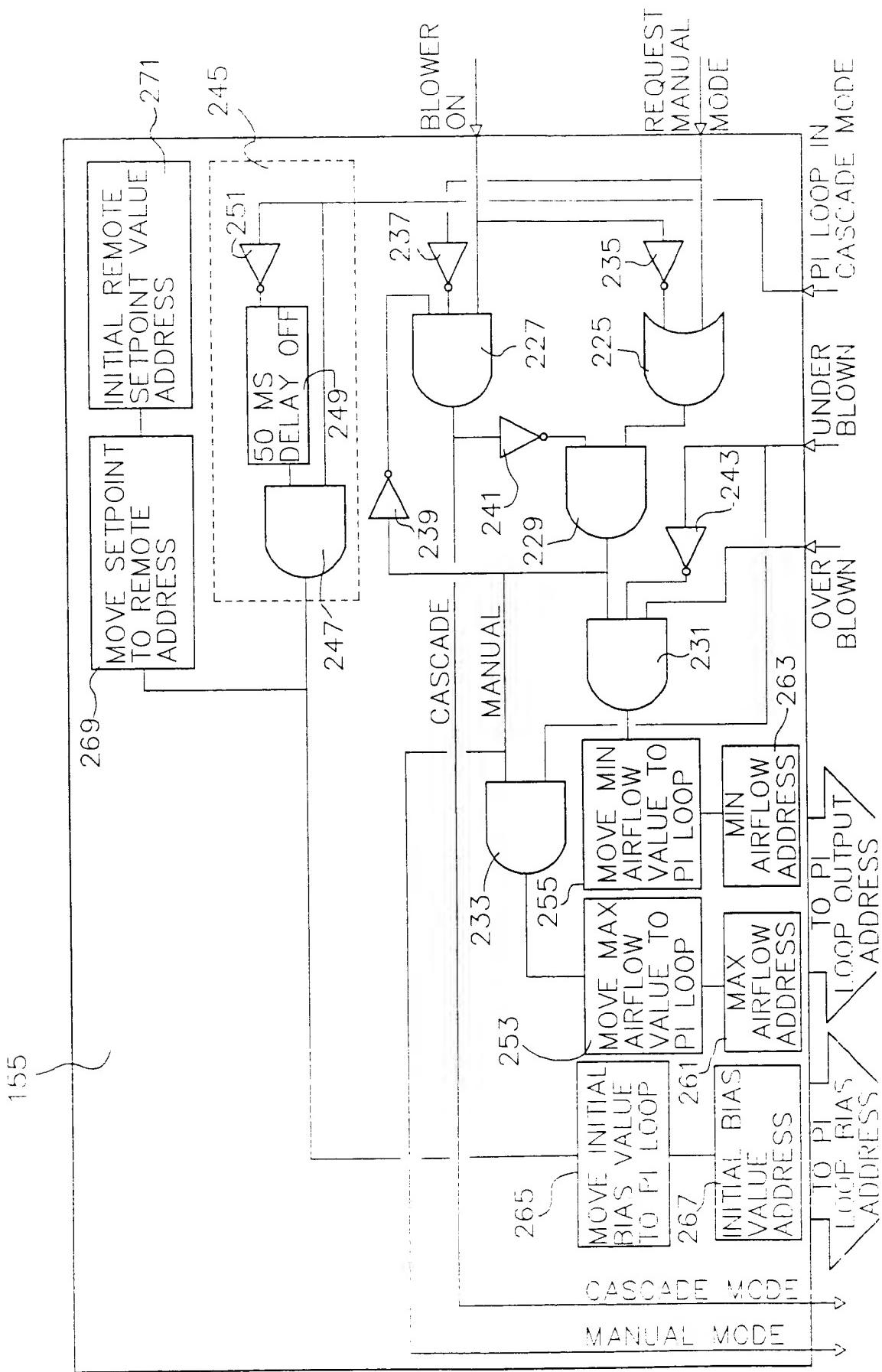


FIGURE 19



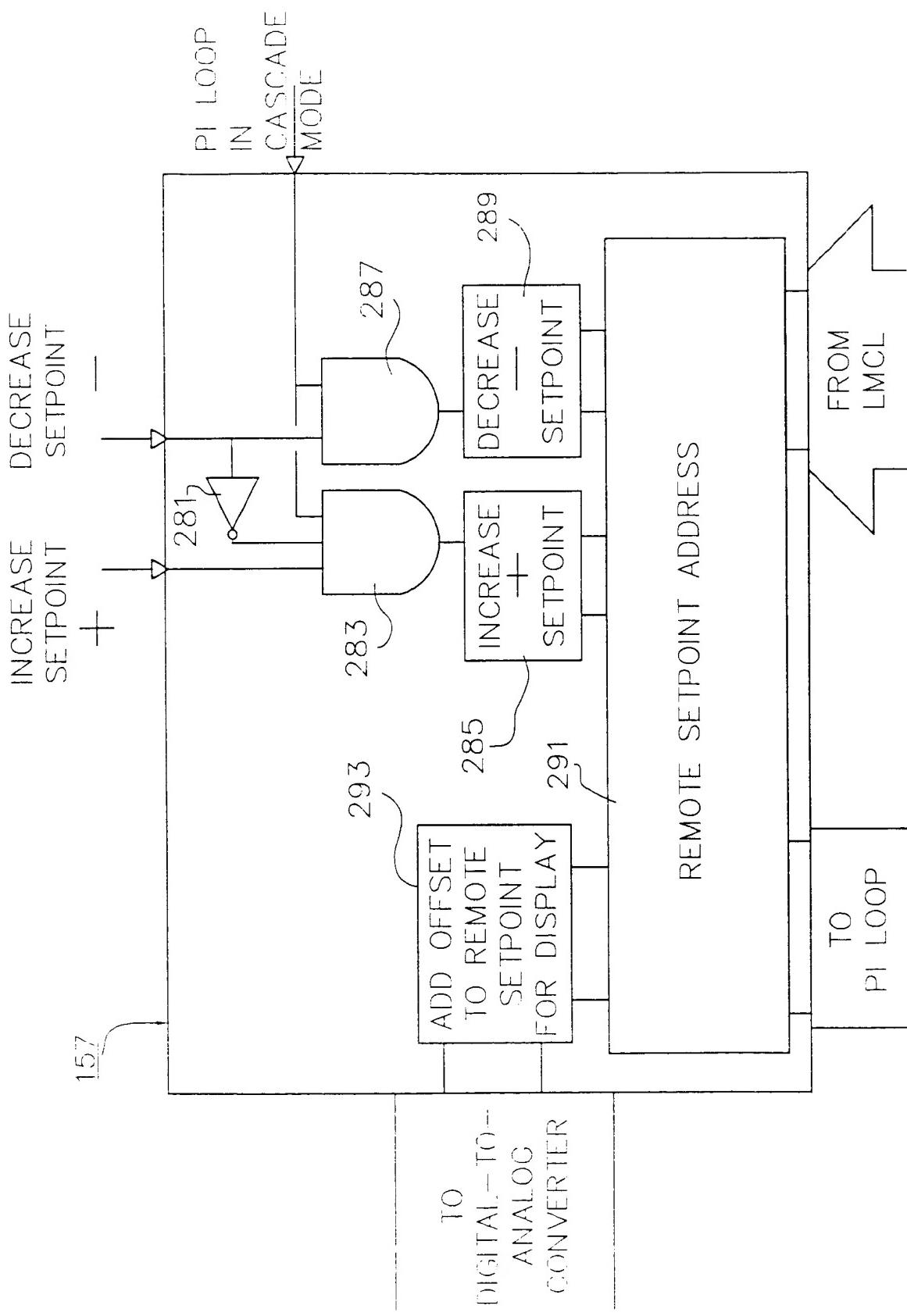


FIGURE 20

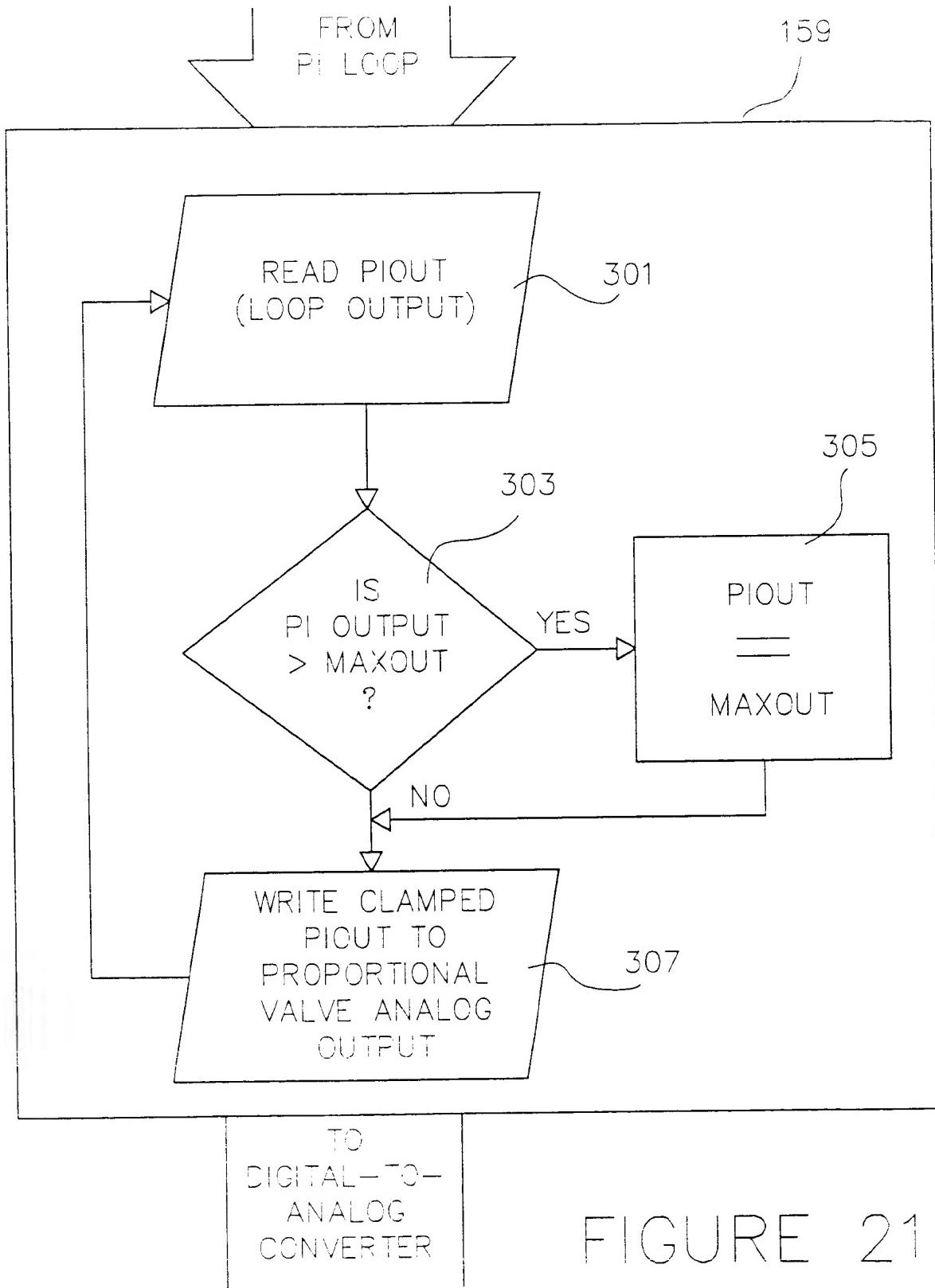


FIGURE 21

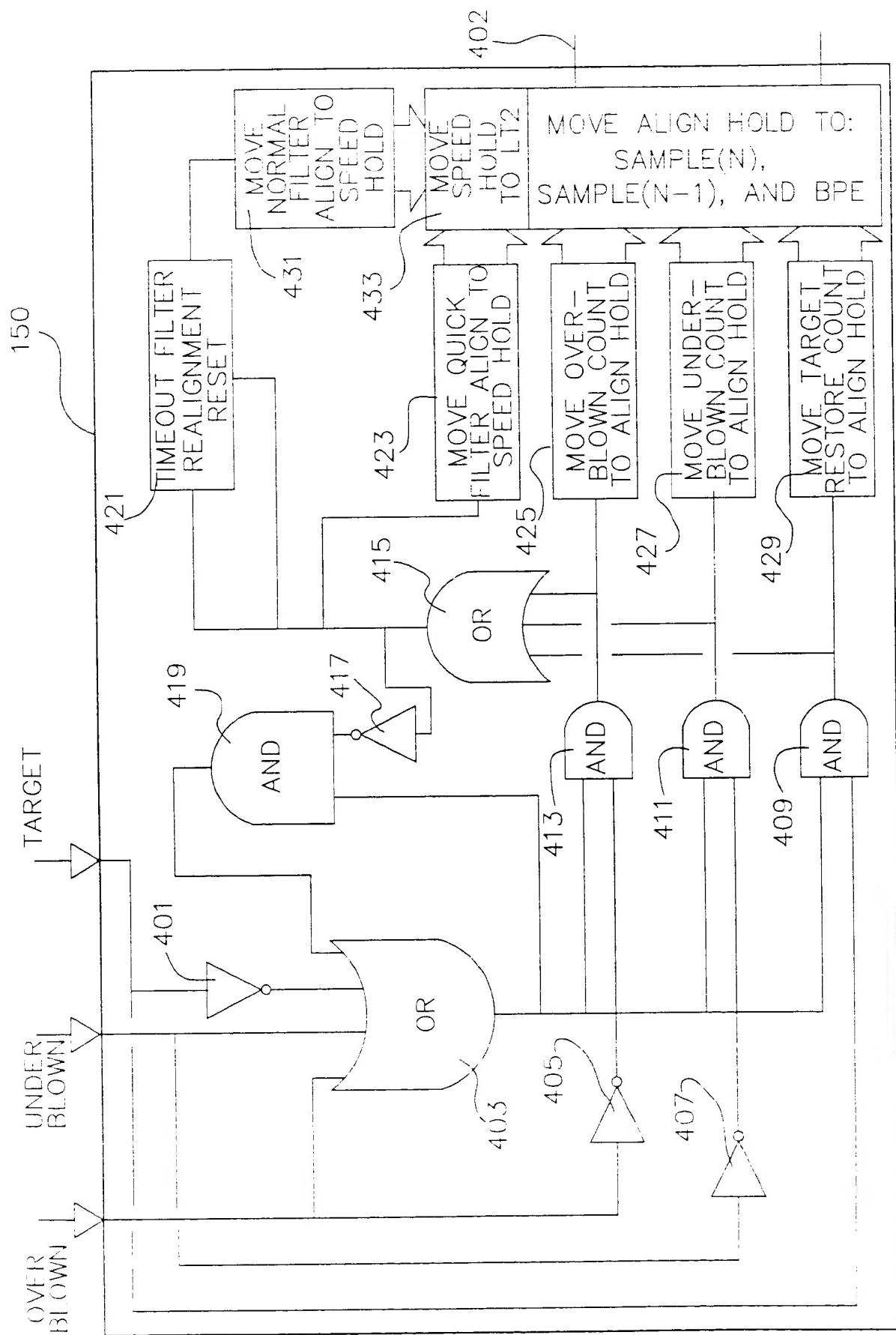
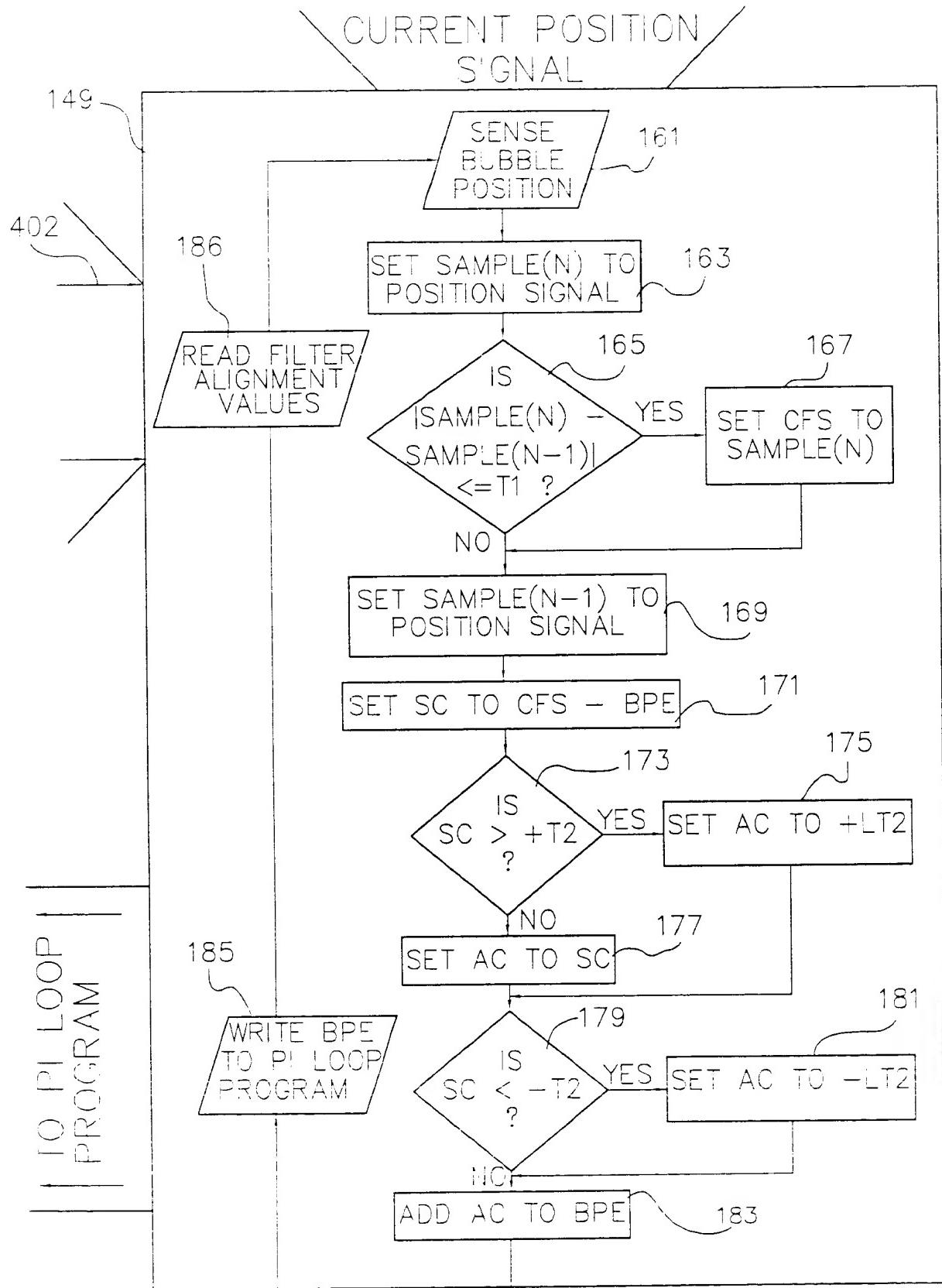


FIGURE 22



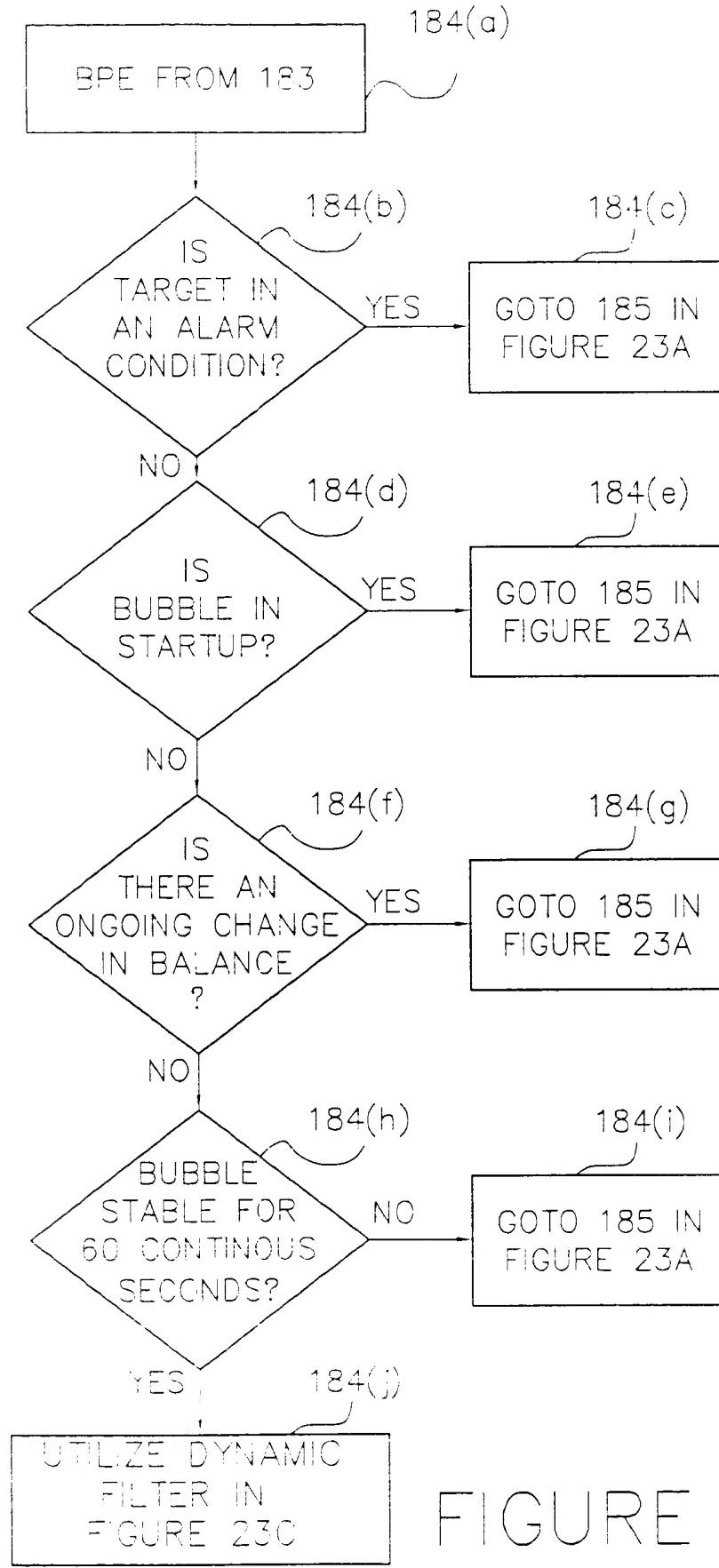
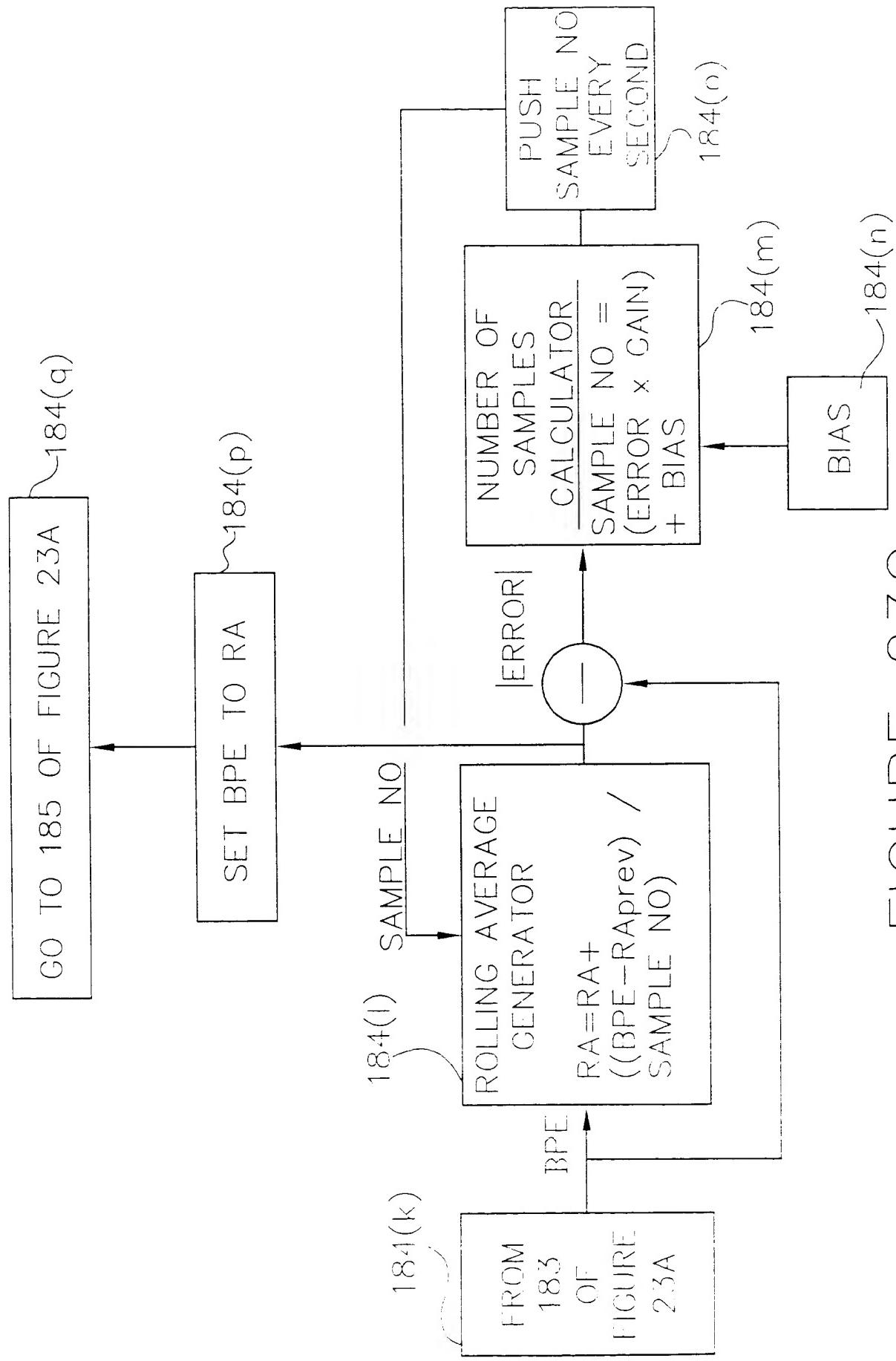


FIGURE 23B

FIGURE 23C



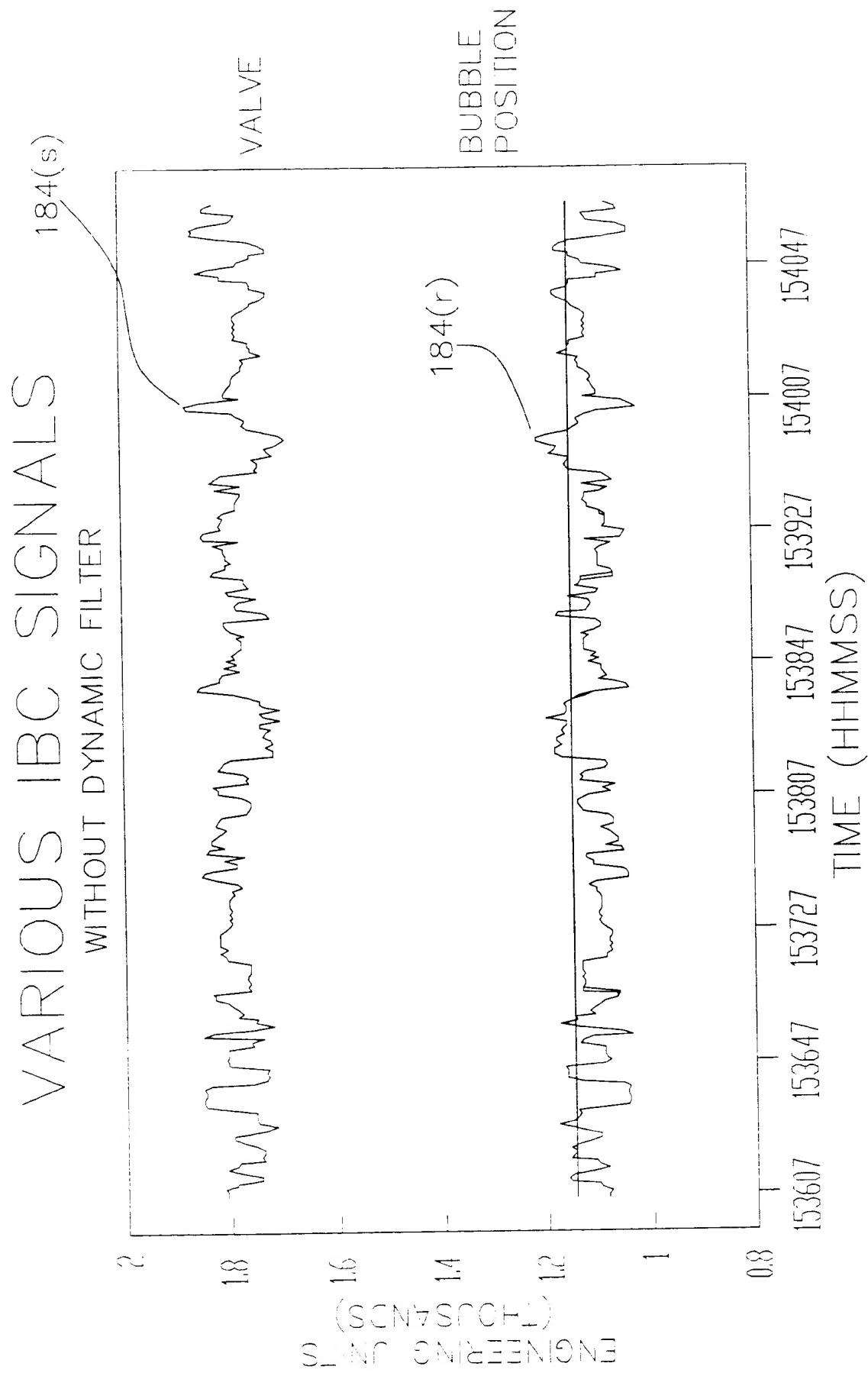


FIGURE 23D

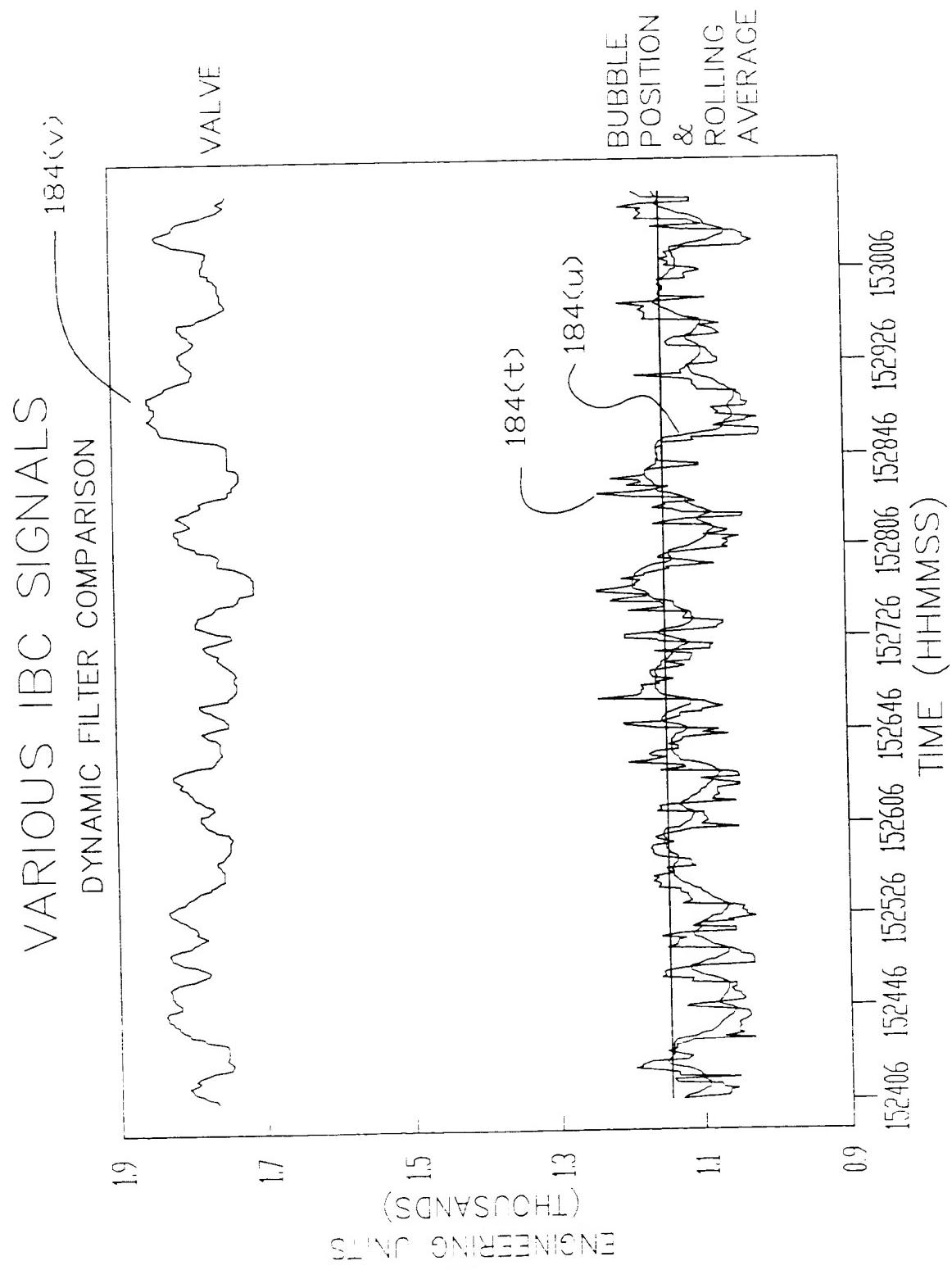


FIGURE 23E

FREQUENCY DISTRIBUTION COMPARISON
DYNAMIC FILTER VS. BPE

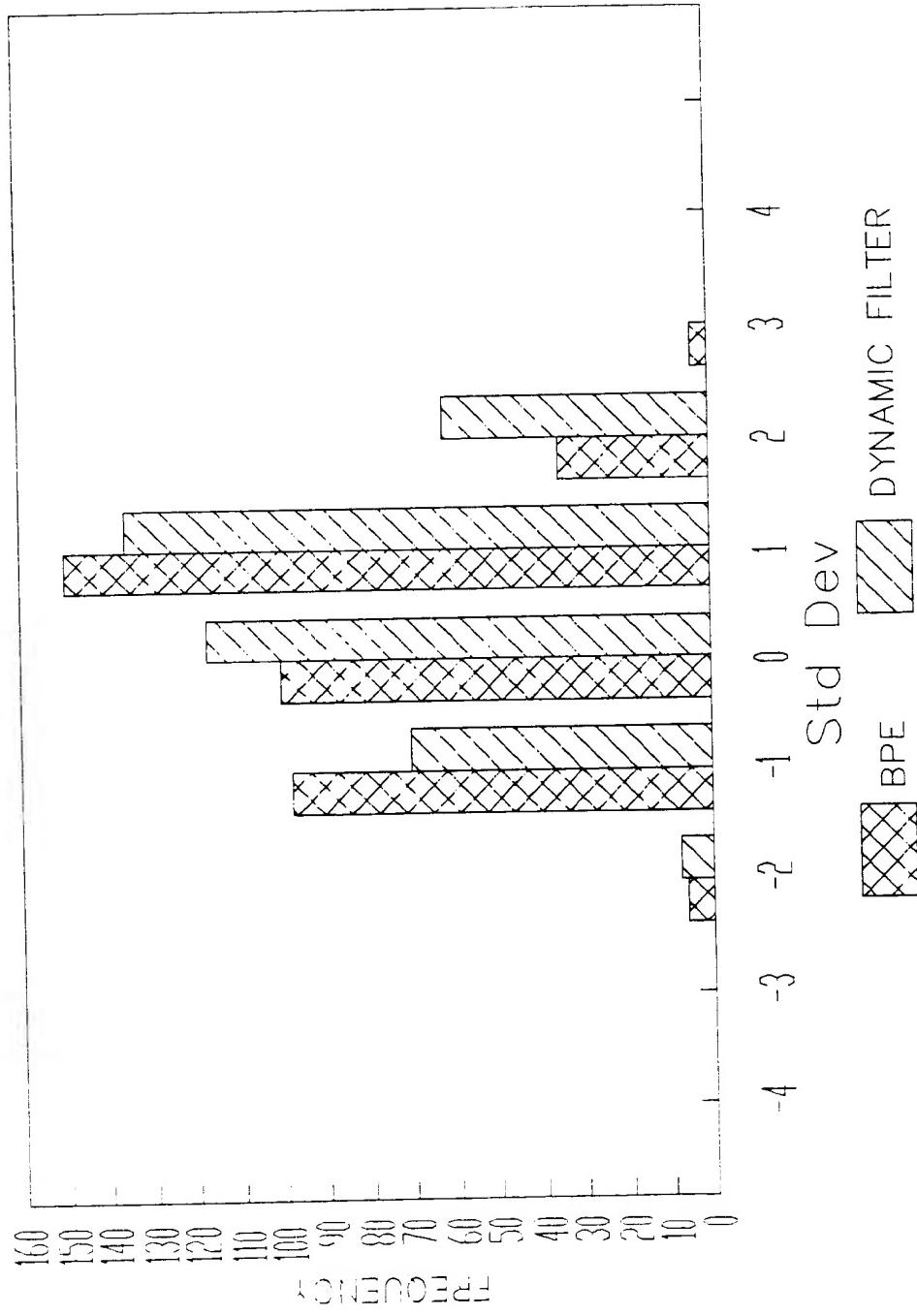


FIGURE 23F

VARIOUS IBC SIGNALS
START-UP WITH DYNAMIC FILTER

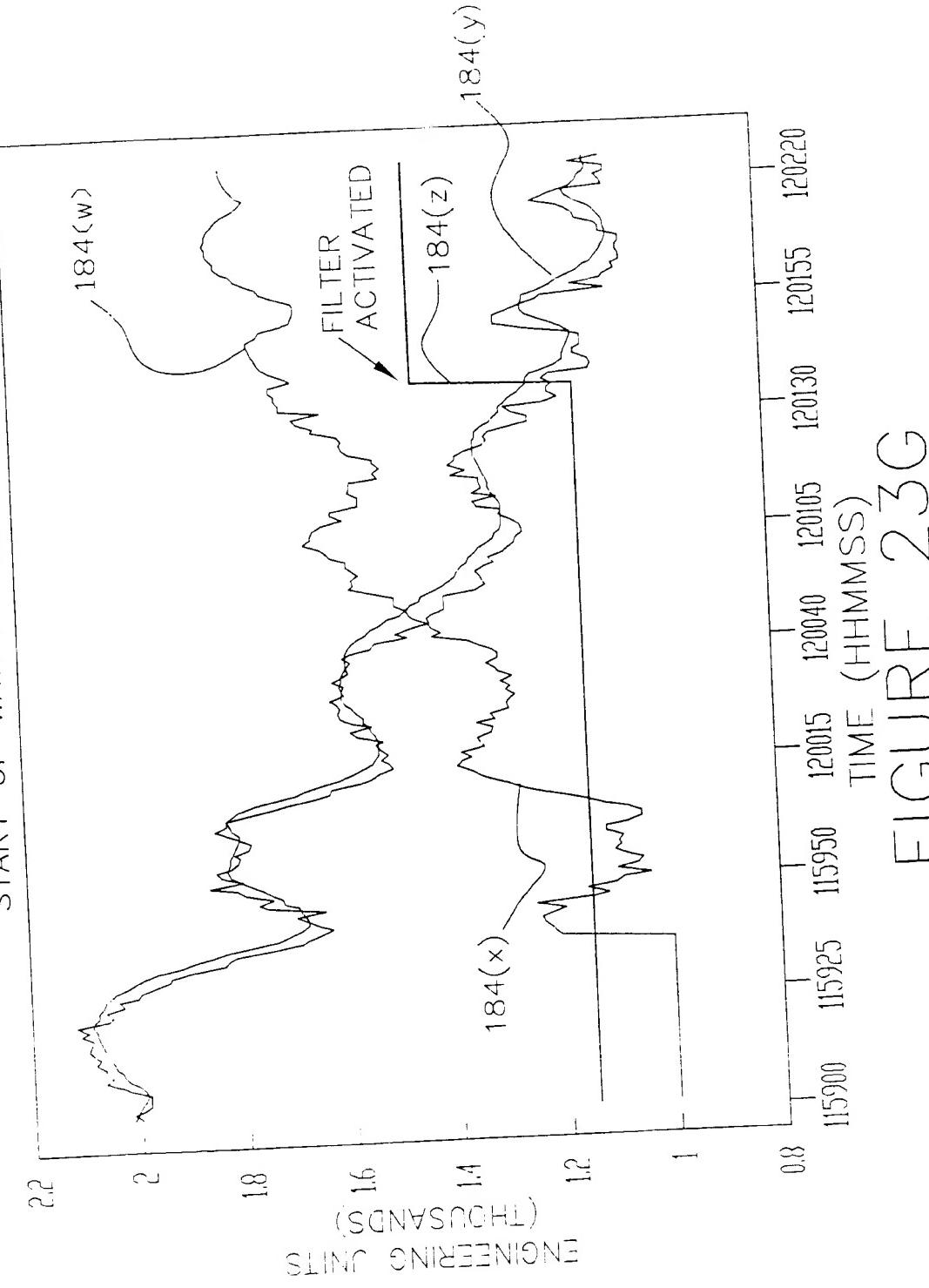


FIGURE 23G

IS-IBC1 FILTER SIMULATION
INPUT = RAMPING LINE WITH RANDOM NOISE

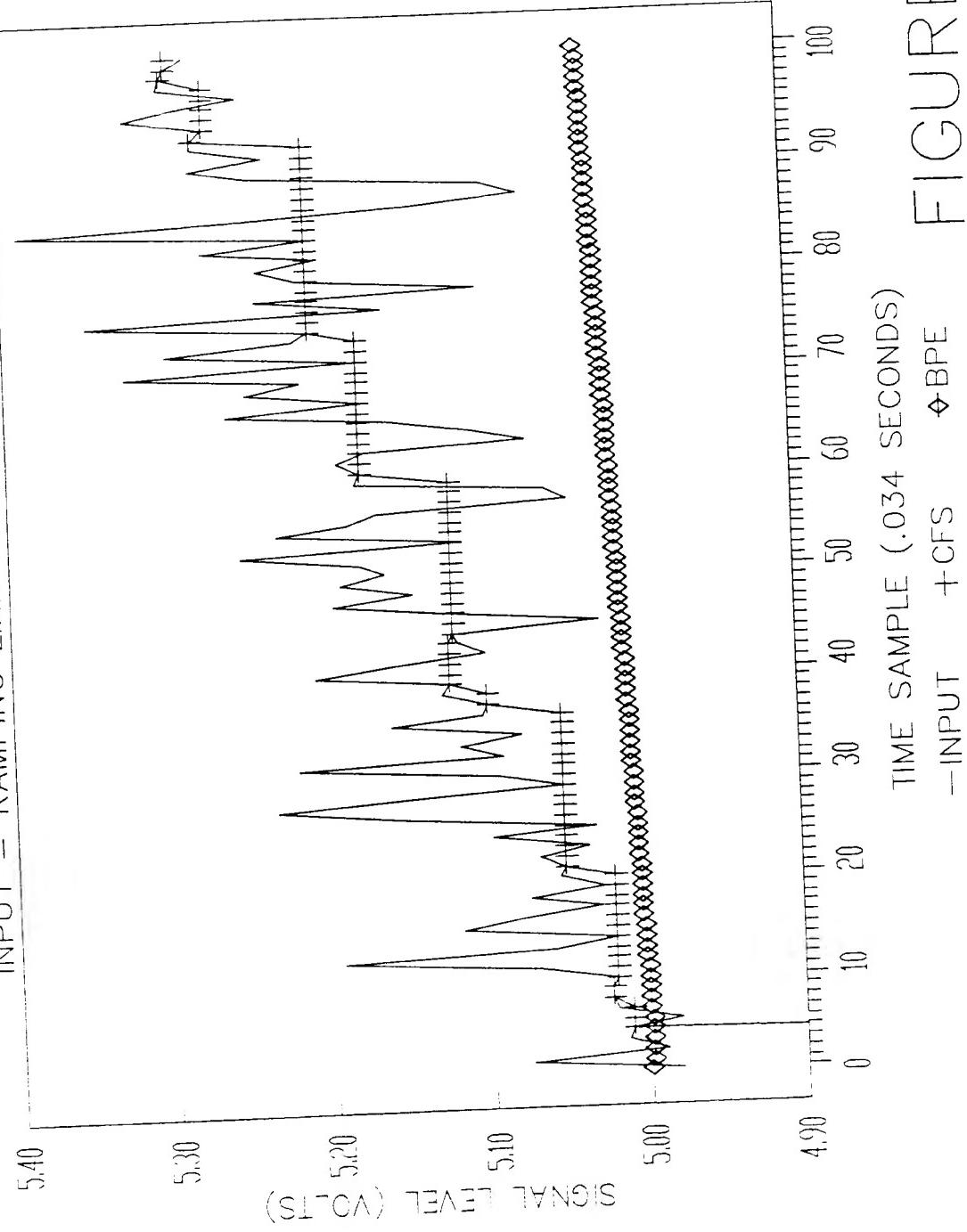


FIGURE 24

FIGURE 25A

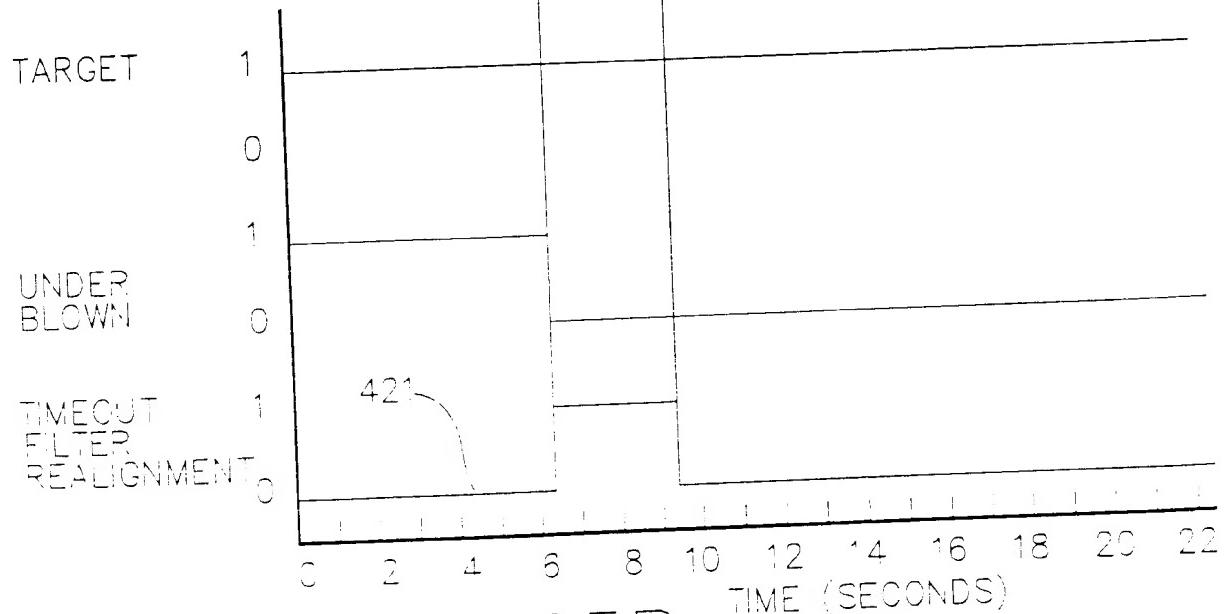
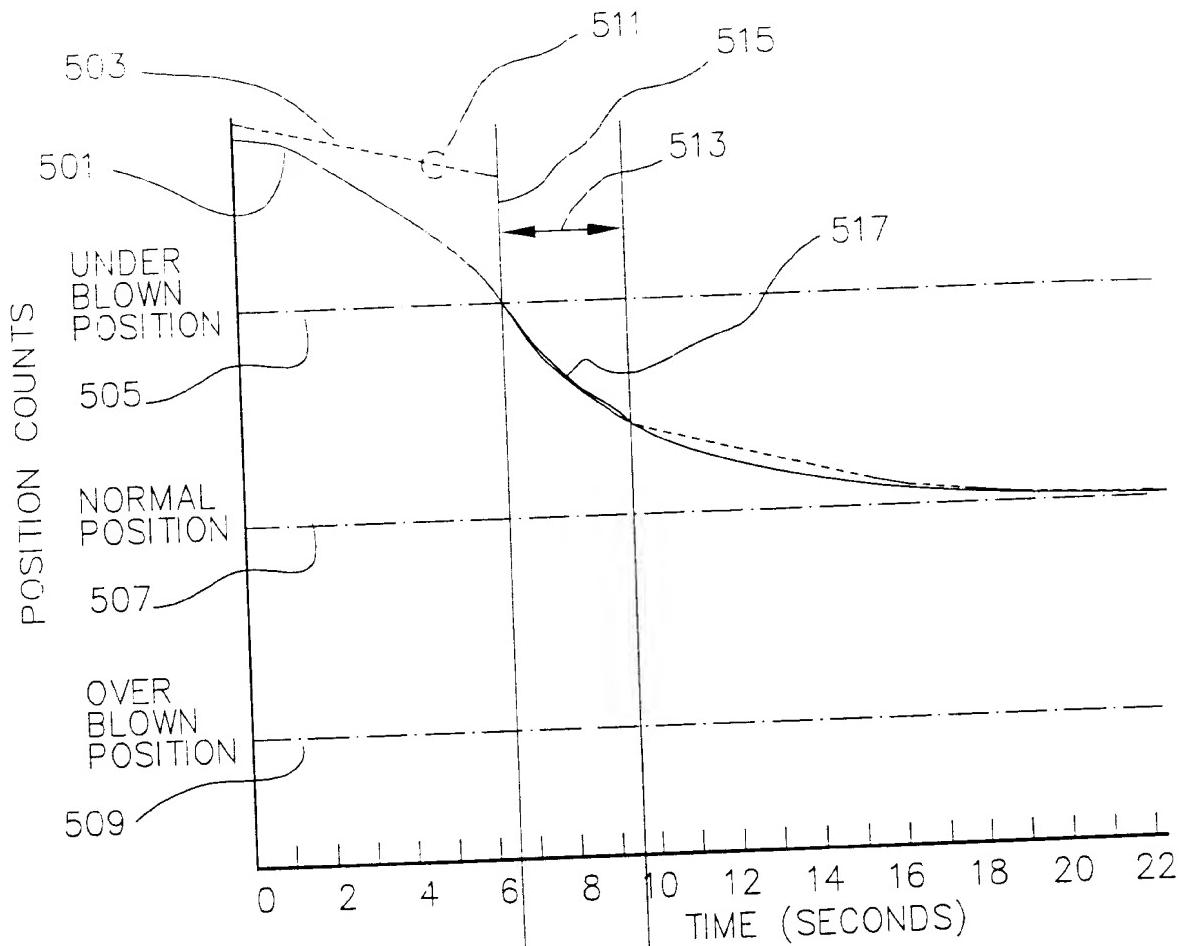


FIGURE 25B

FIGURE 26A

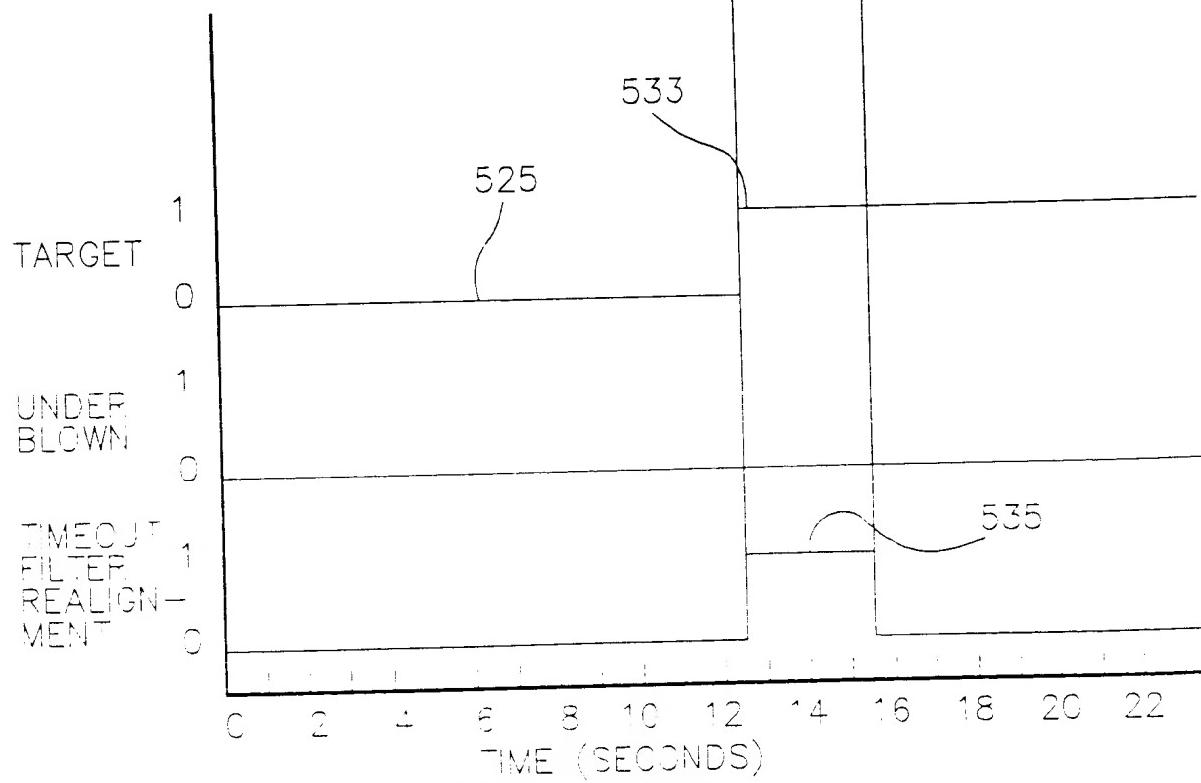
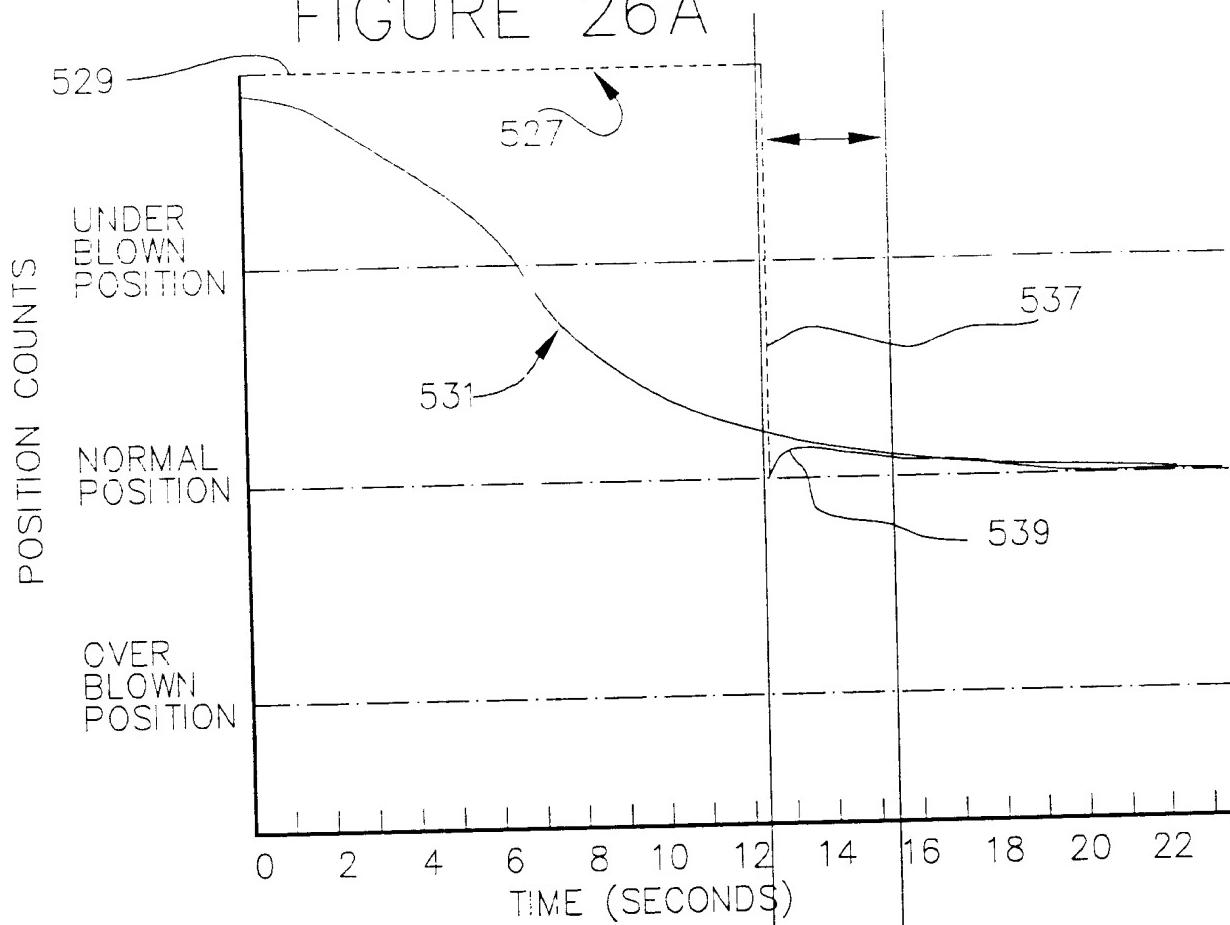


FIGURE 26B

FIGURE 27A

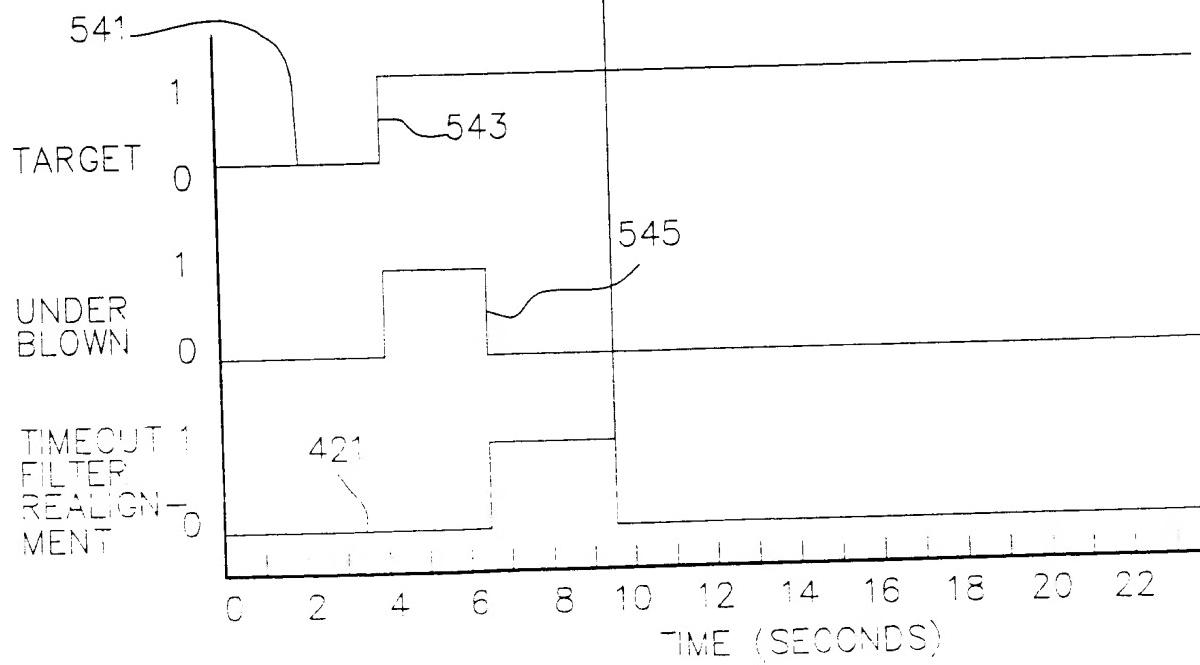
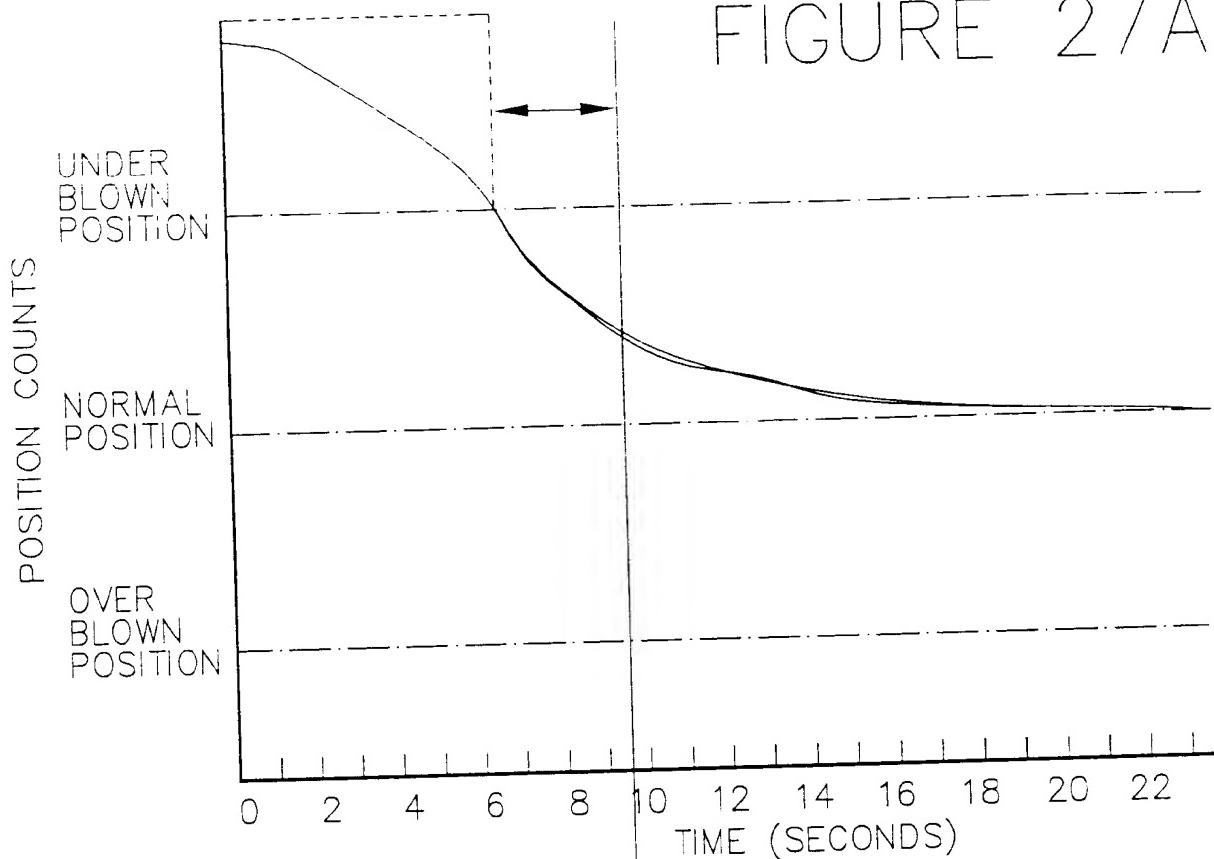
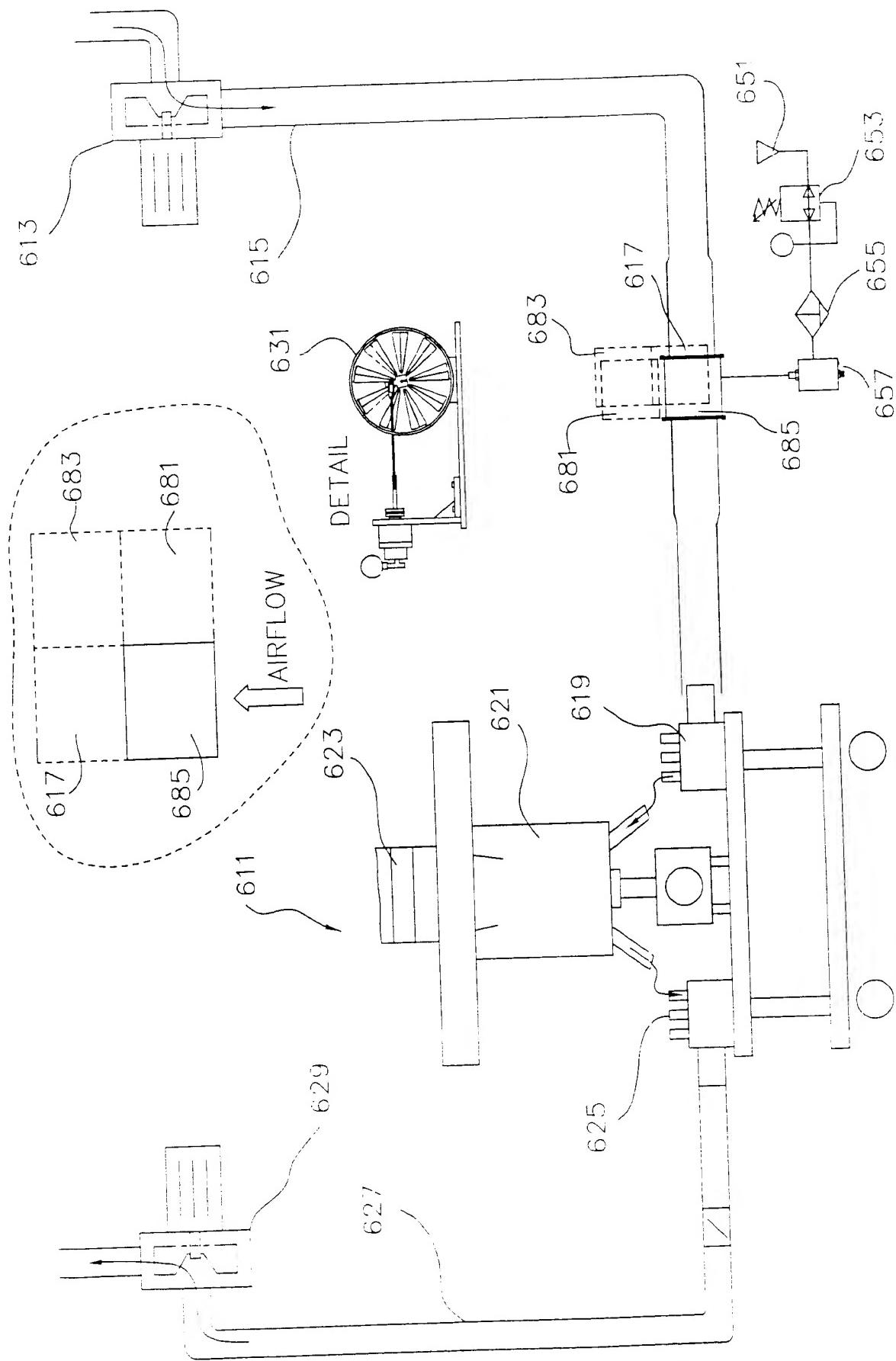
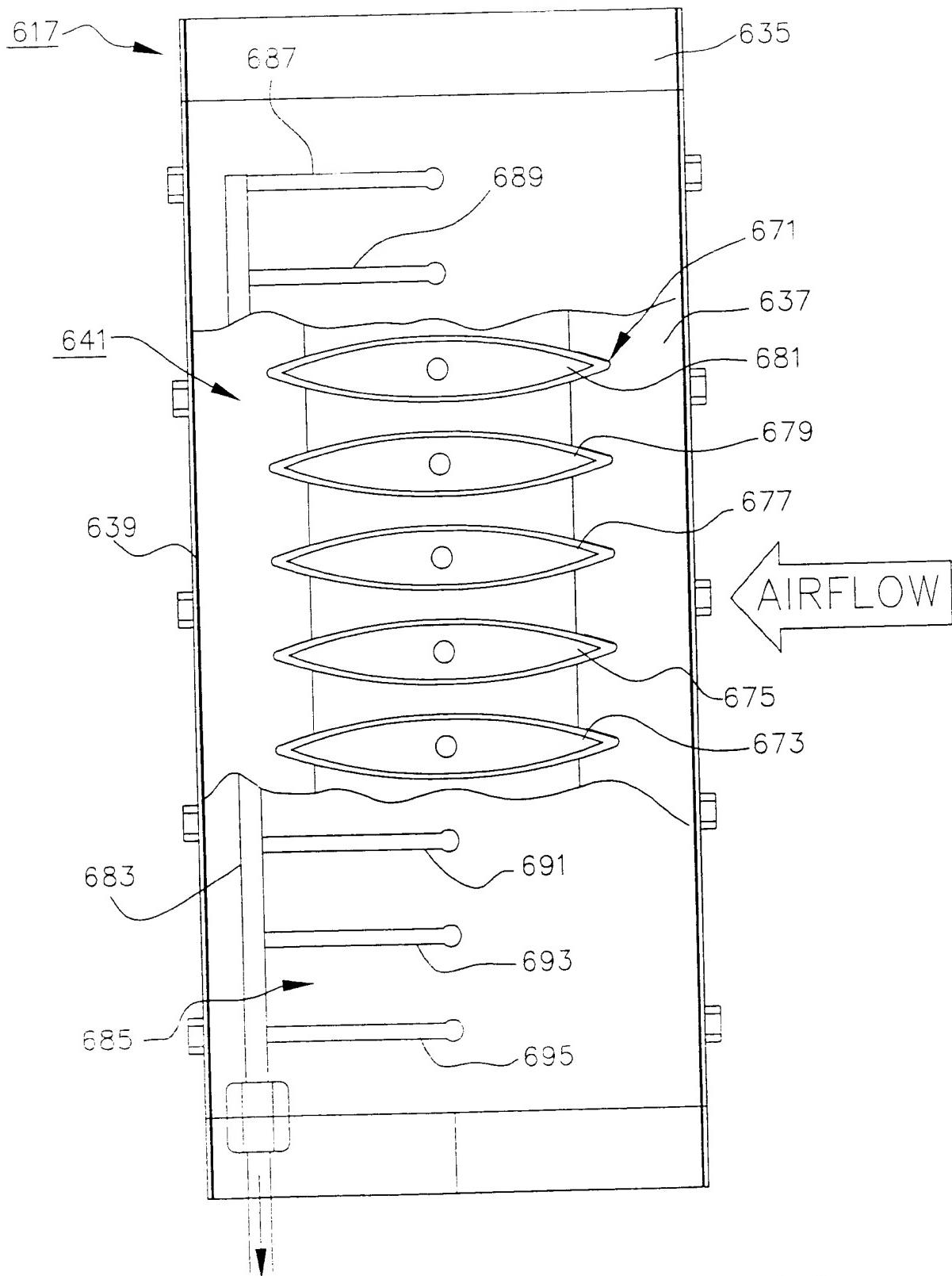


FIGURE 27B

FIGURE 28





TO 657

FIGURE 29

FIGURE 30

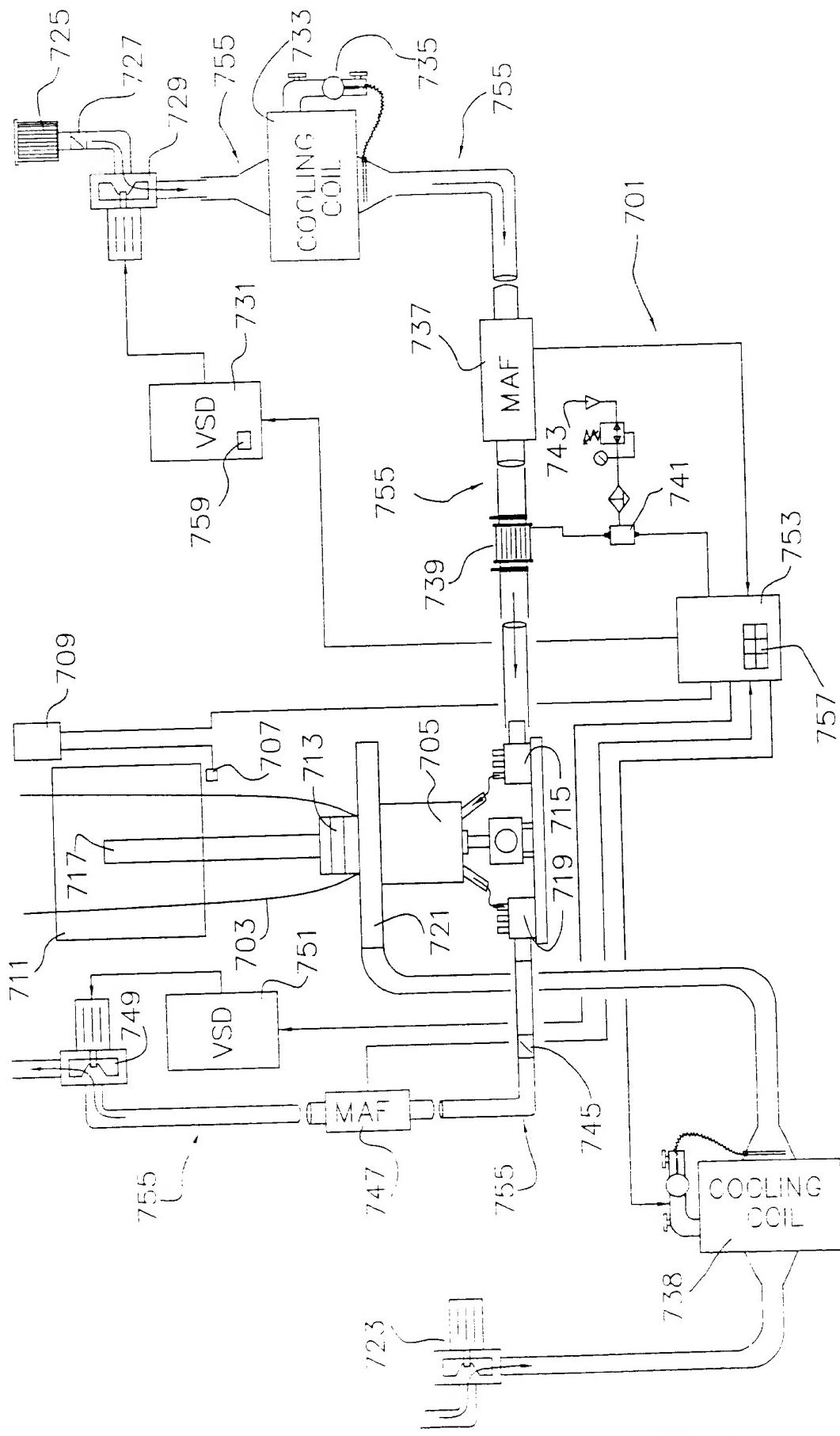
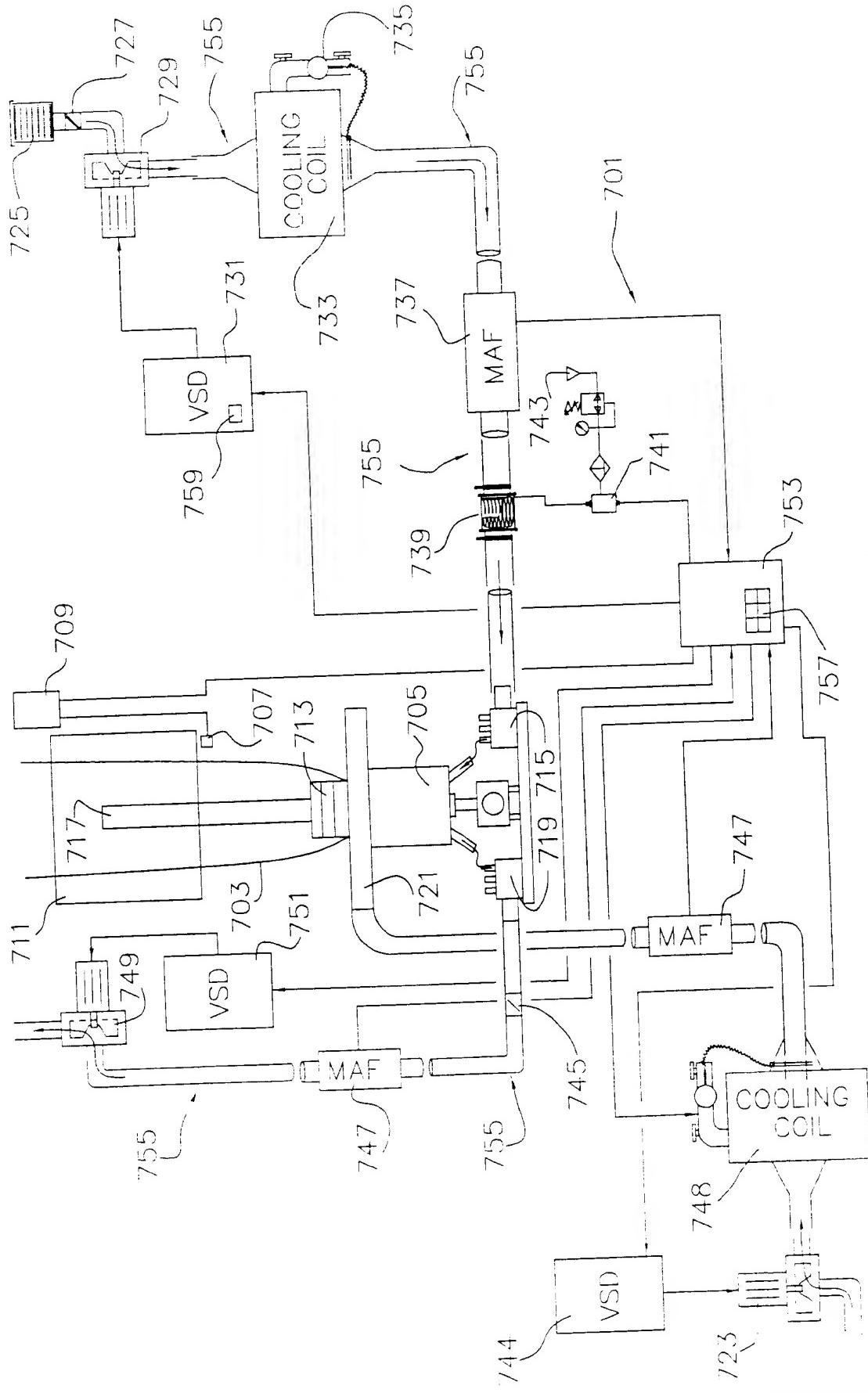


FIGURE 31



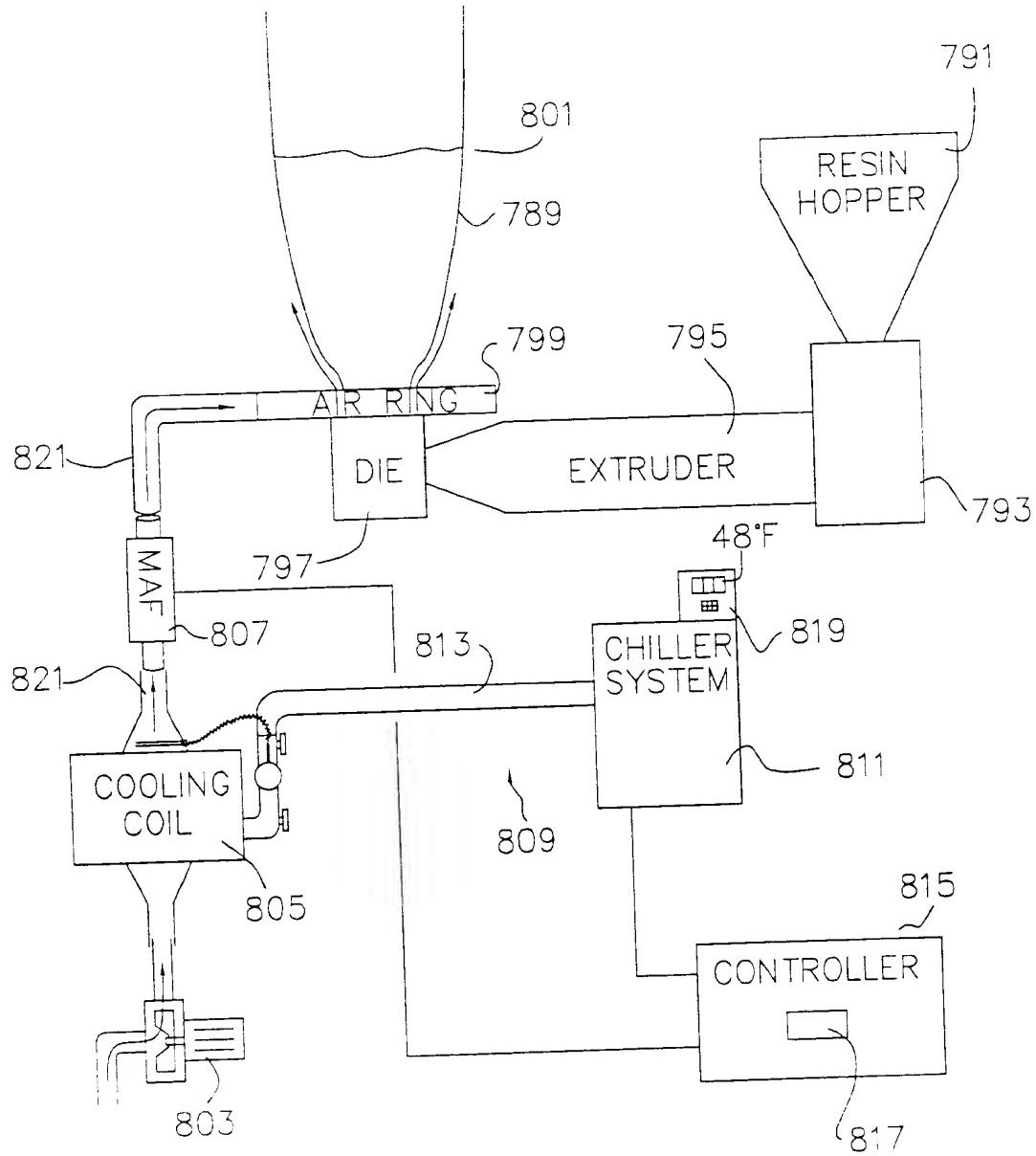


FIGURE 32

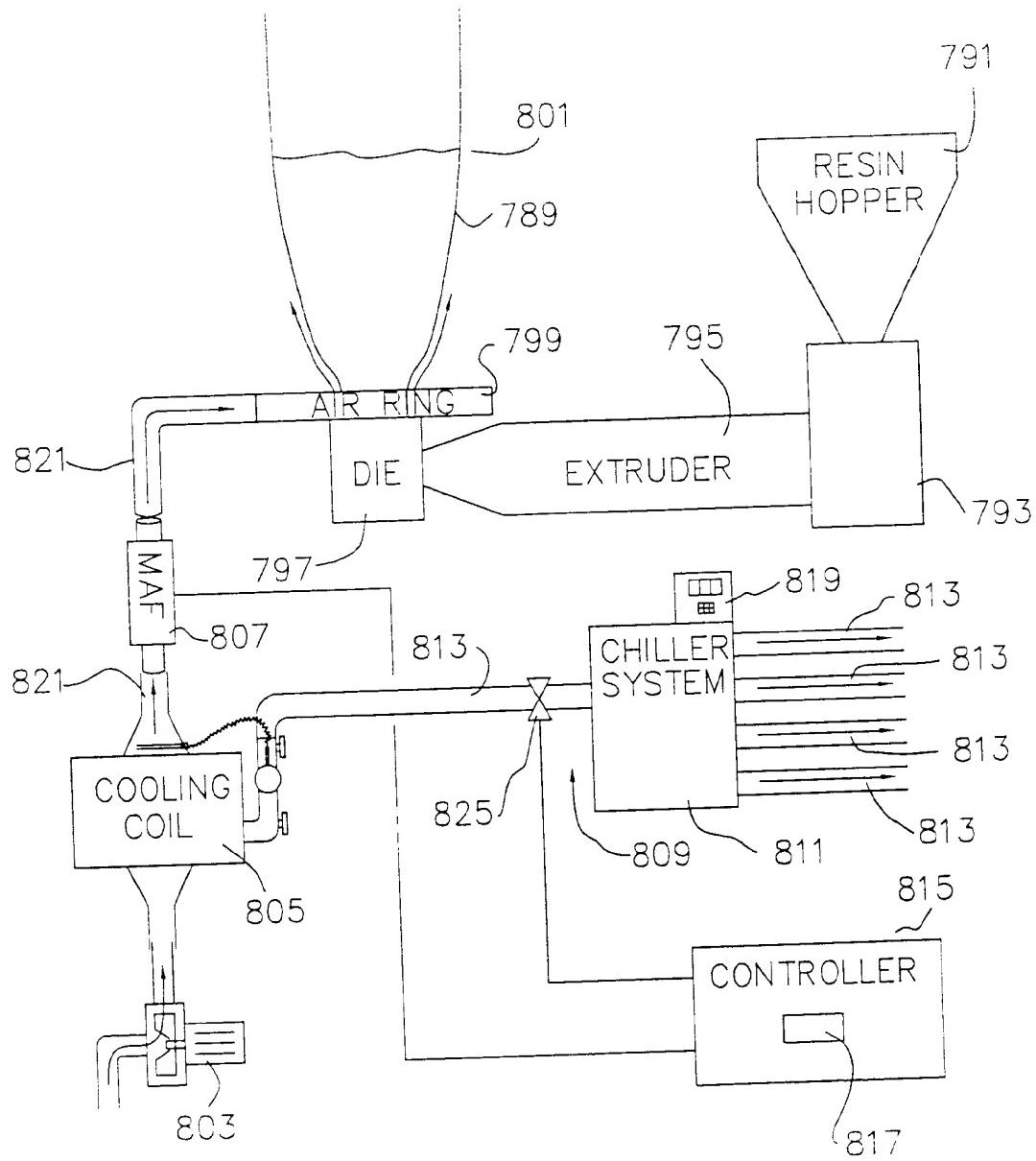


FIGURE 33

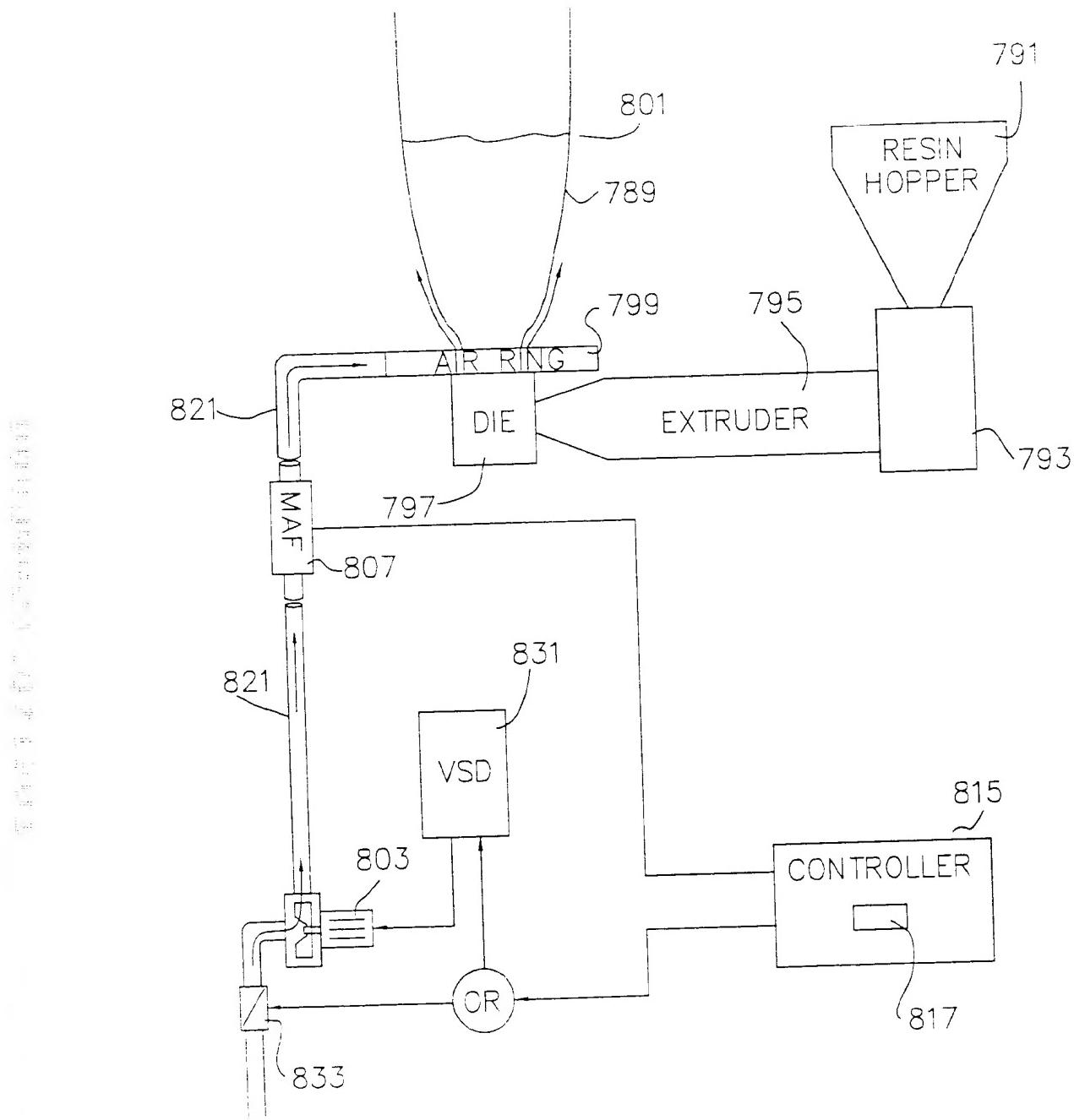


FIGURE 34

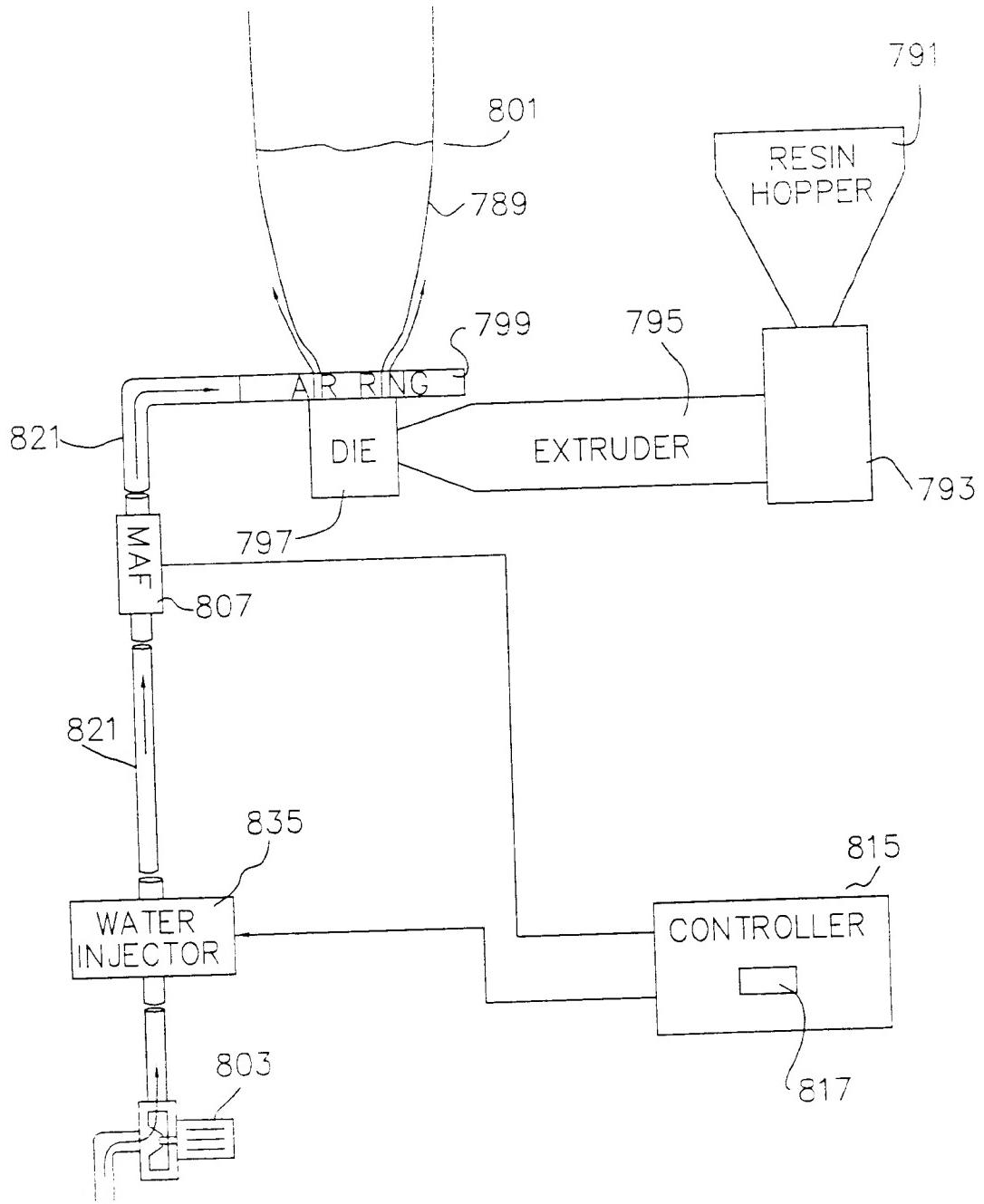


FIGURE 35

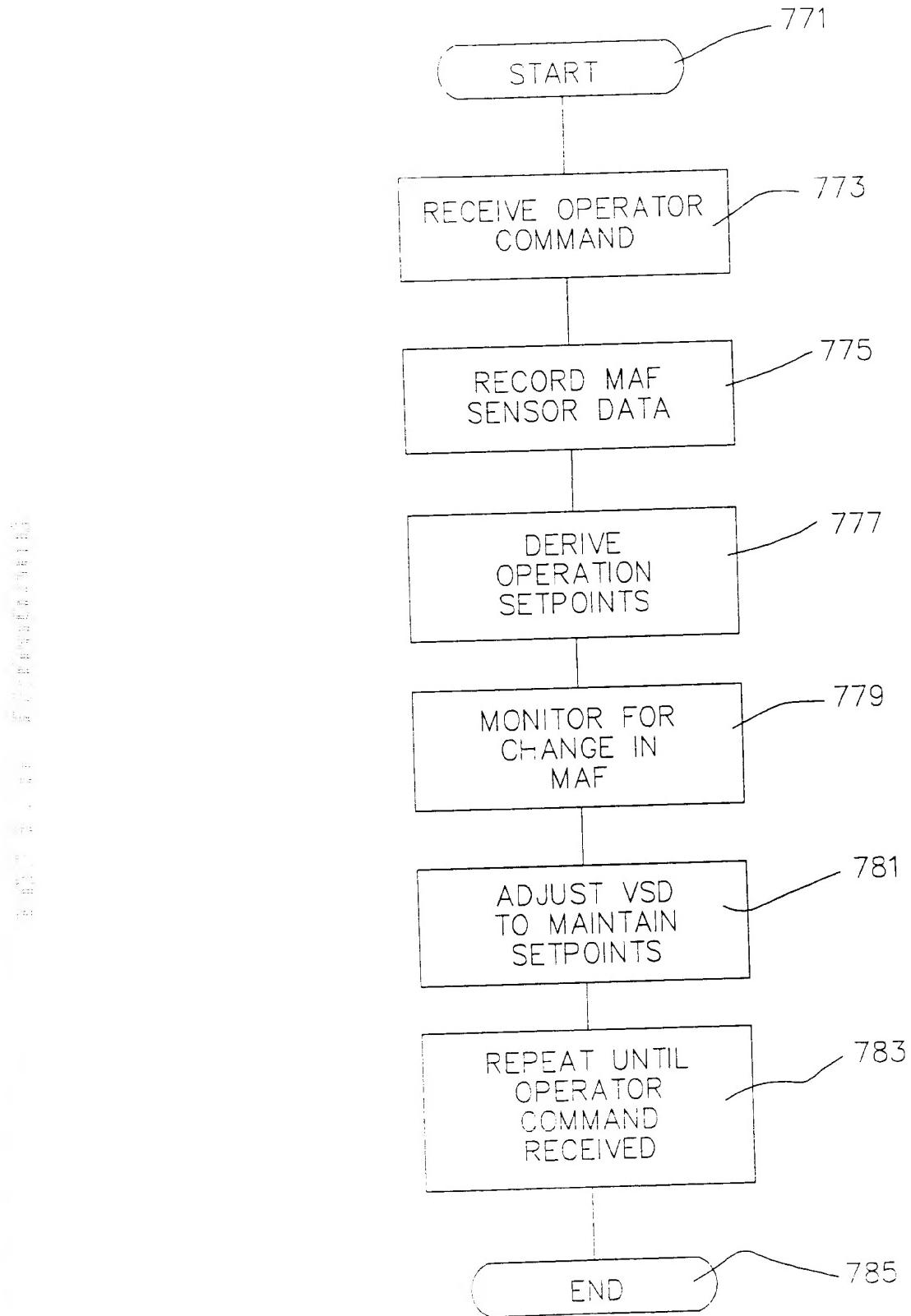


FIGURE 36

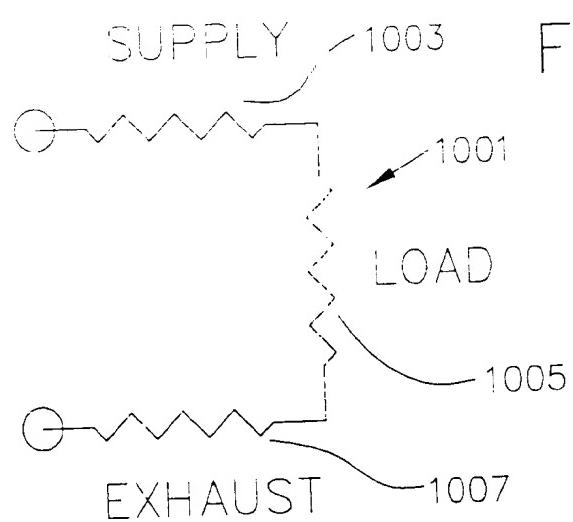


FIGURE 37A
(PRIOR ART)

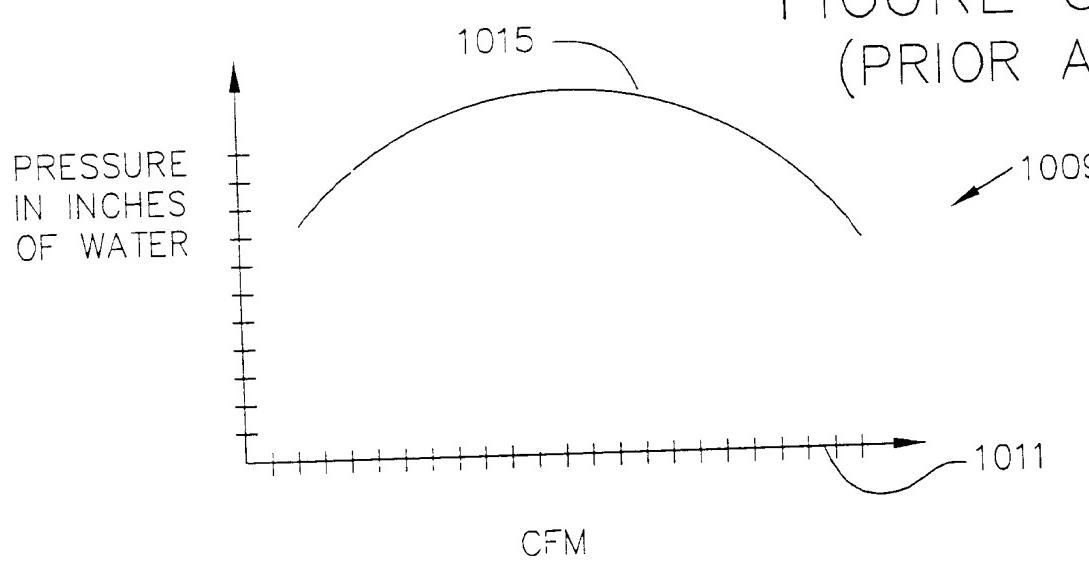


FIGURE 37B
(PRIOR ART)

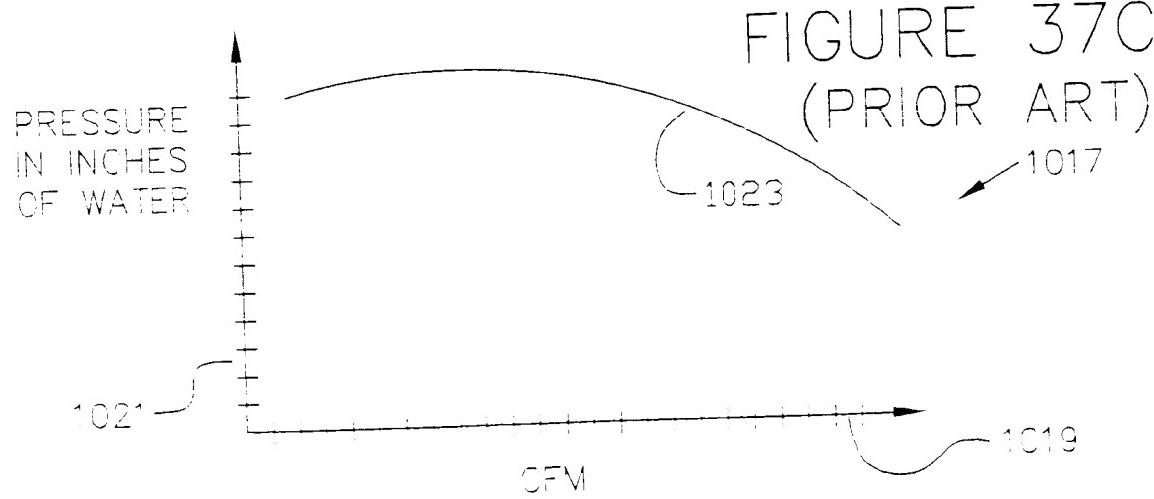


FIGURE 37C
(PRIOR ART)

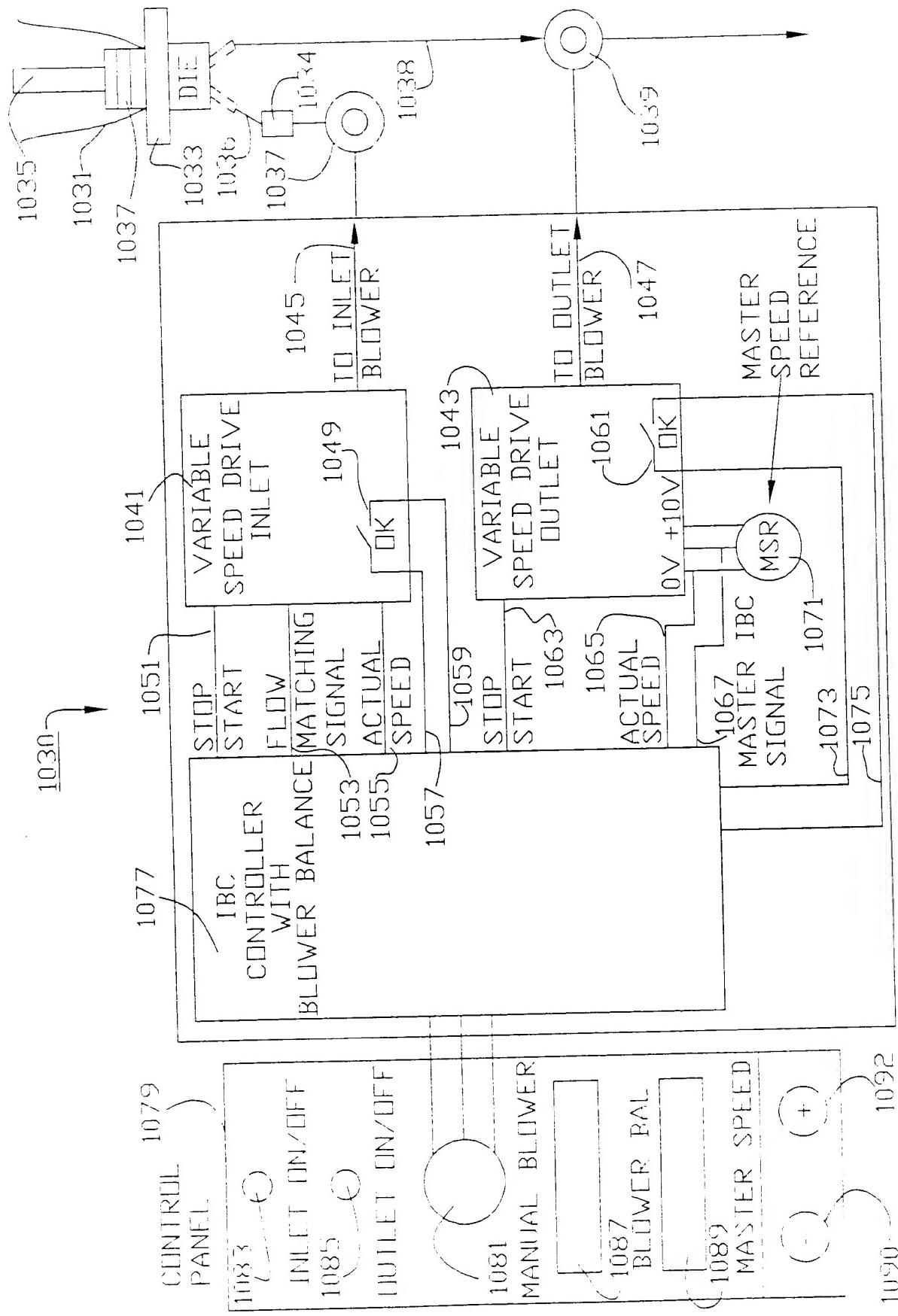


FIGURE 37D

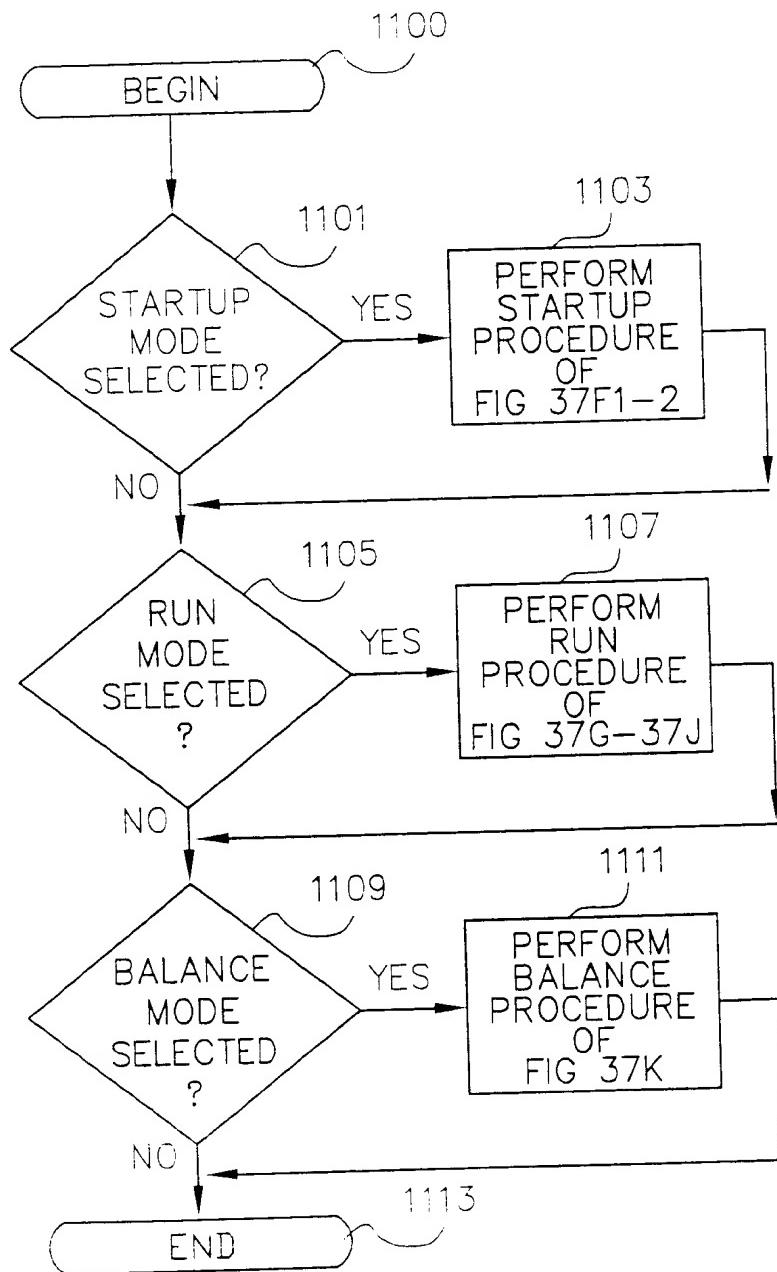
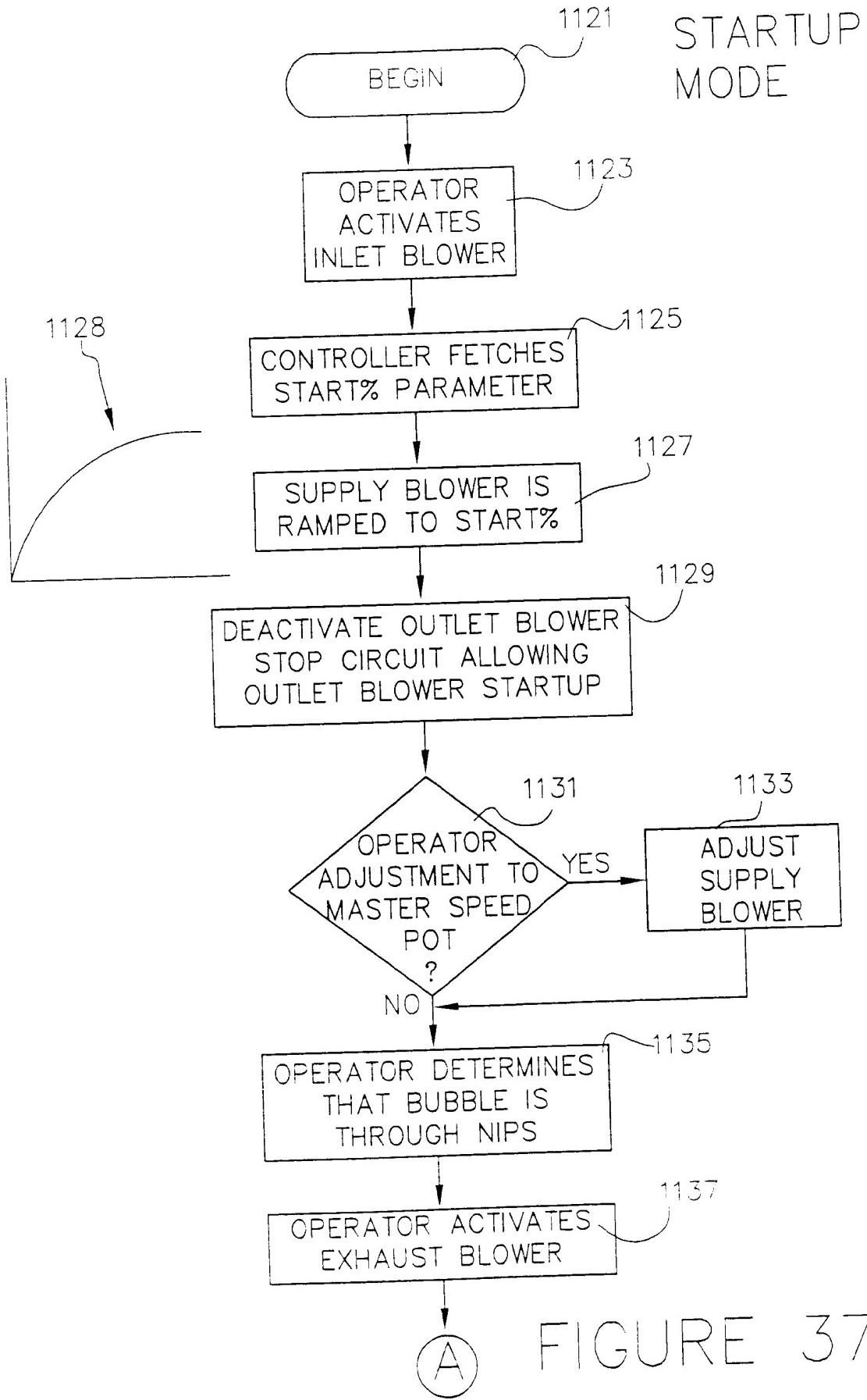


FIGURE 37E



STARTUP
MODE CONTINUED

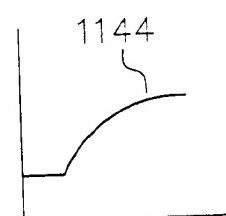
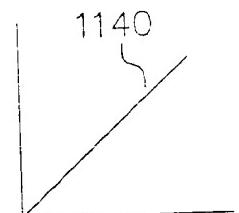
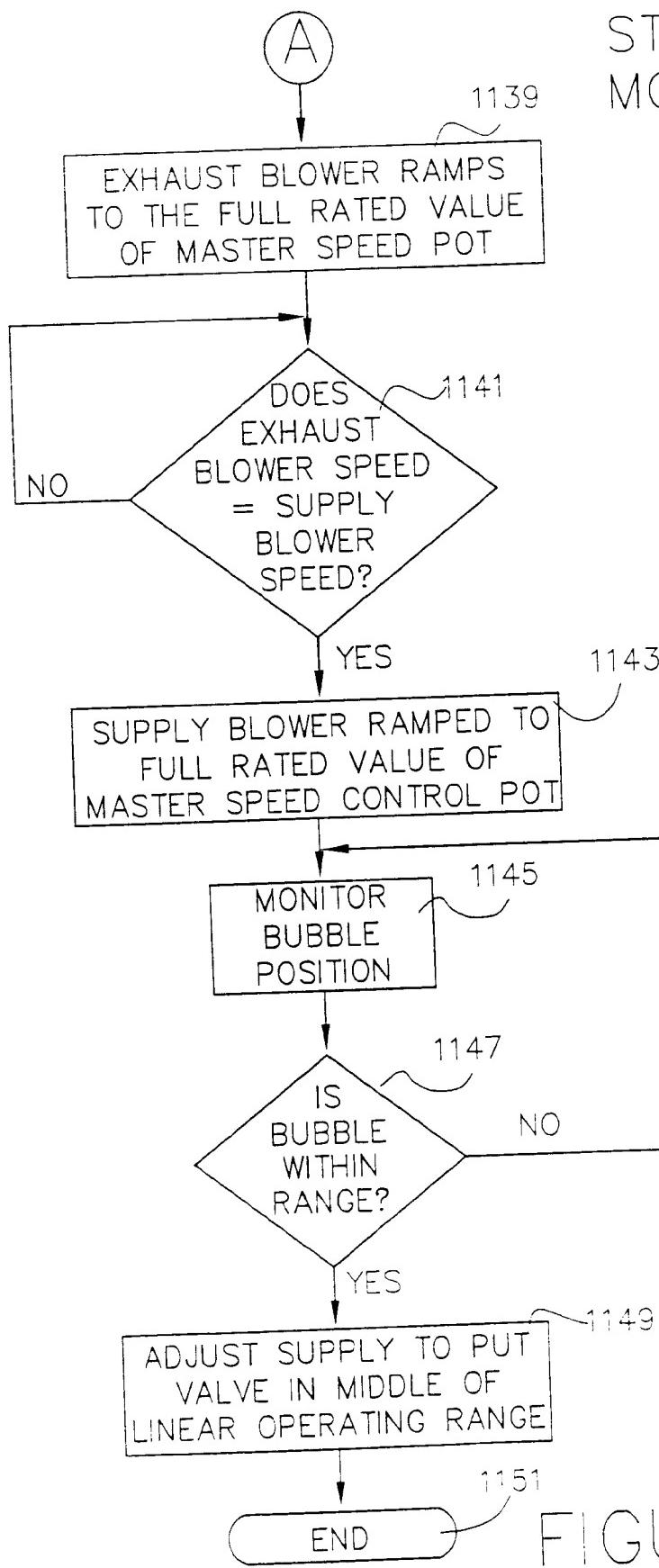


FIGURE 37F2

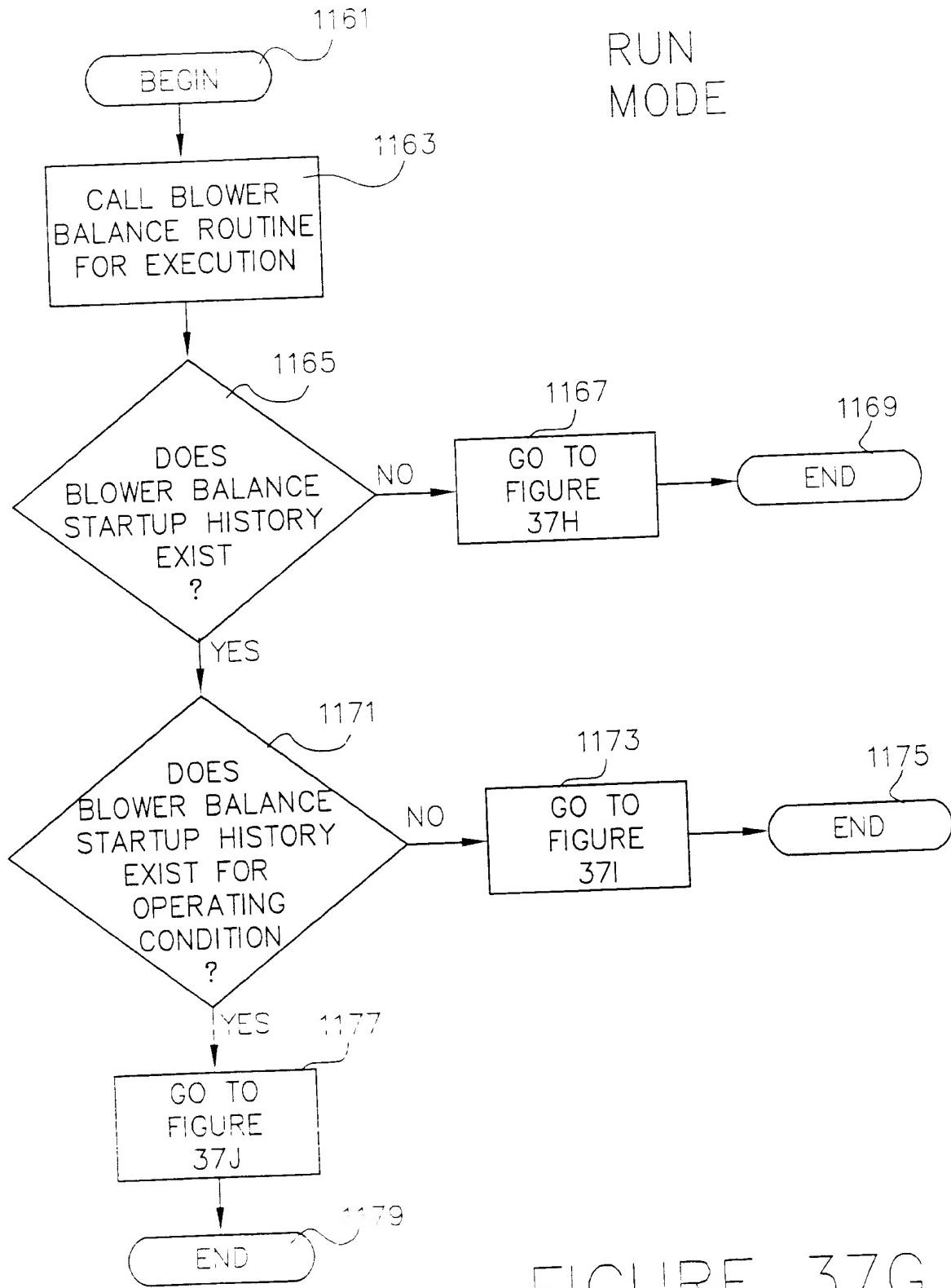


FIGURE 37G

RUN
MODE

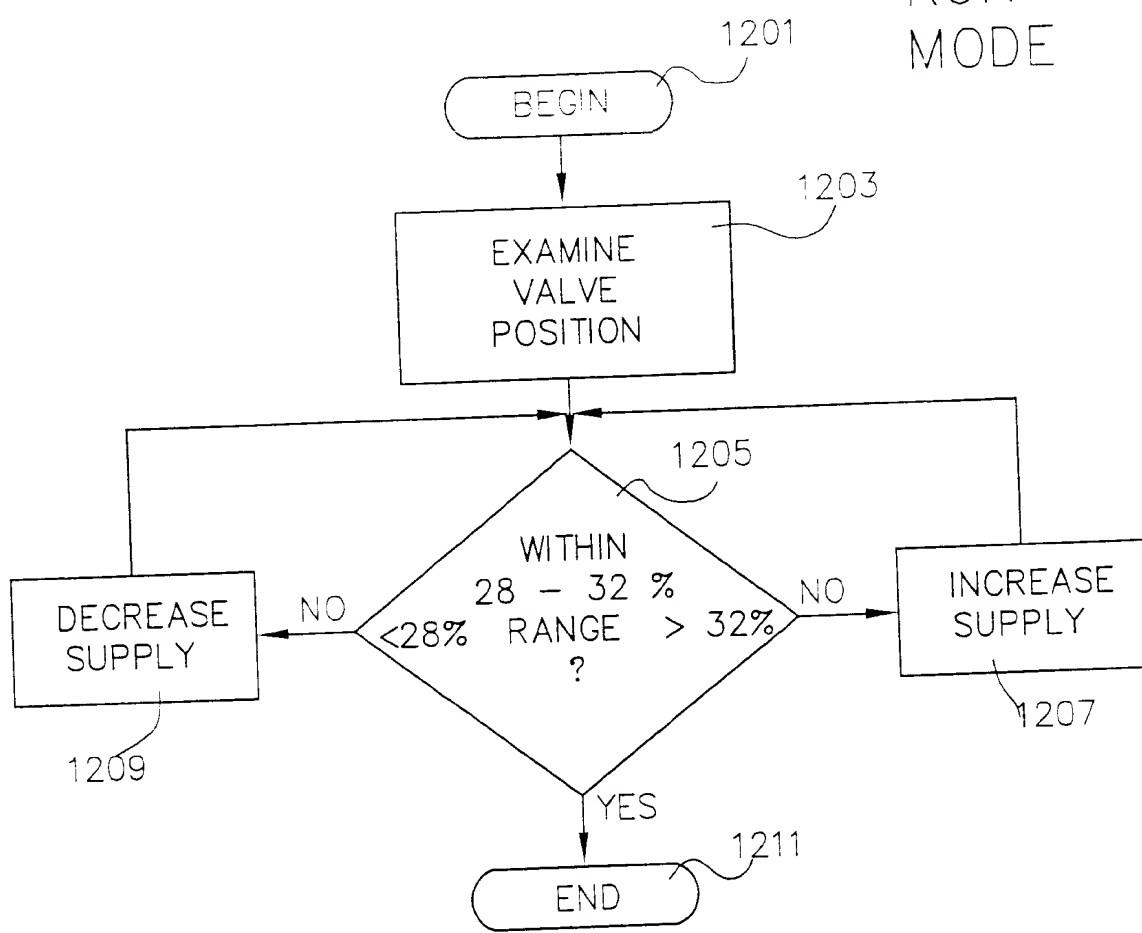


FIGURE 37H

RUN
MODE

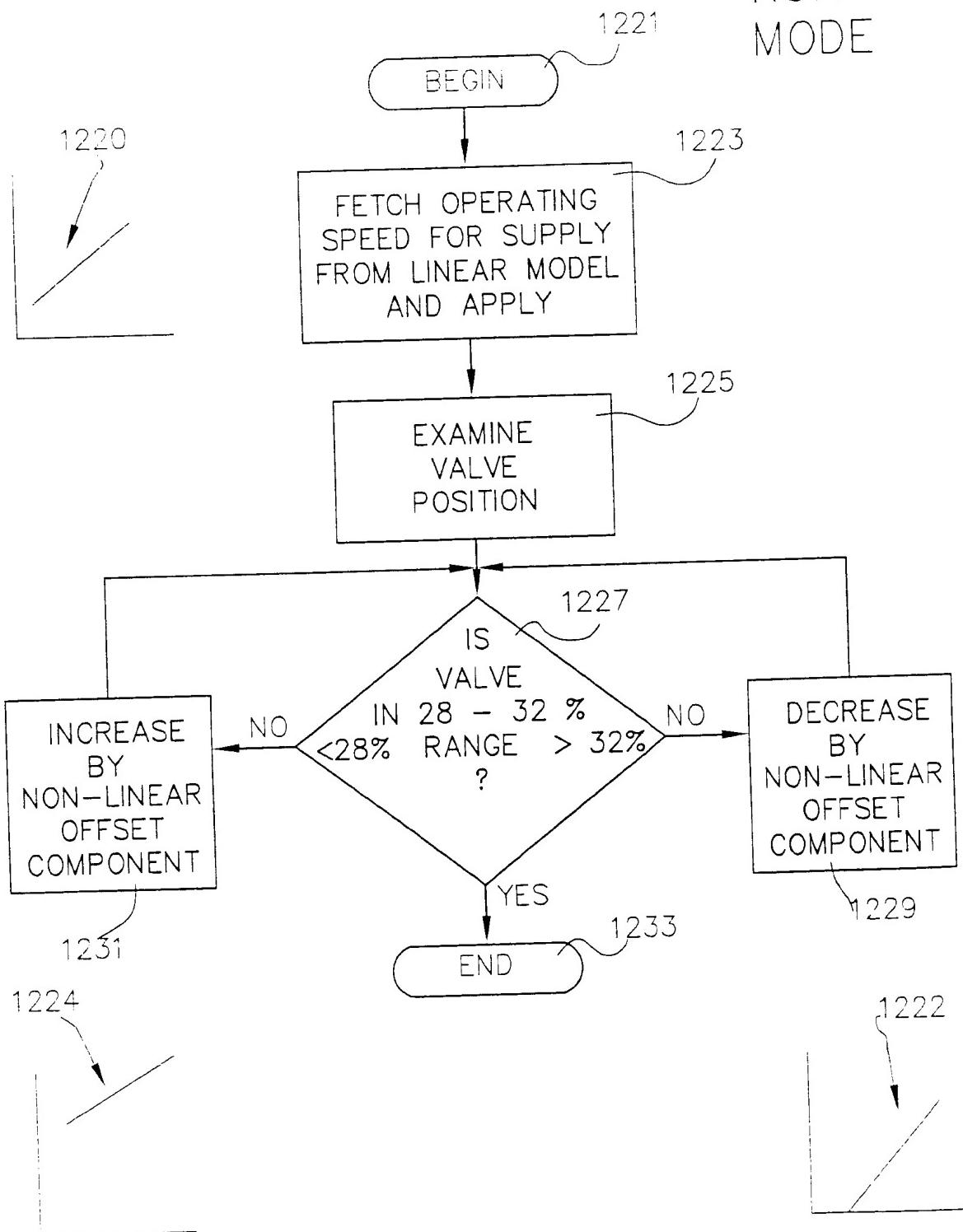


FIGURE 371

RUN
MODE

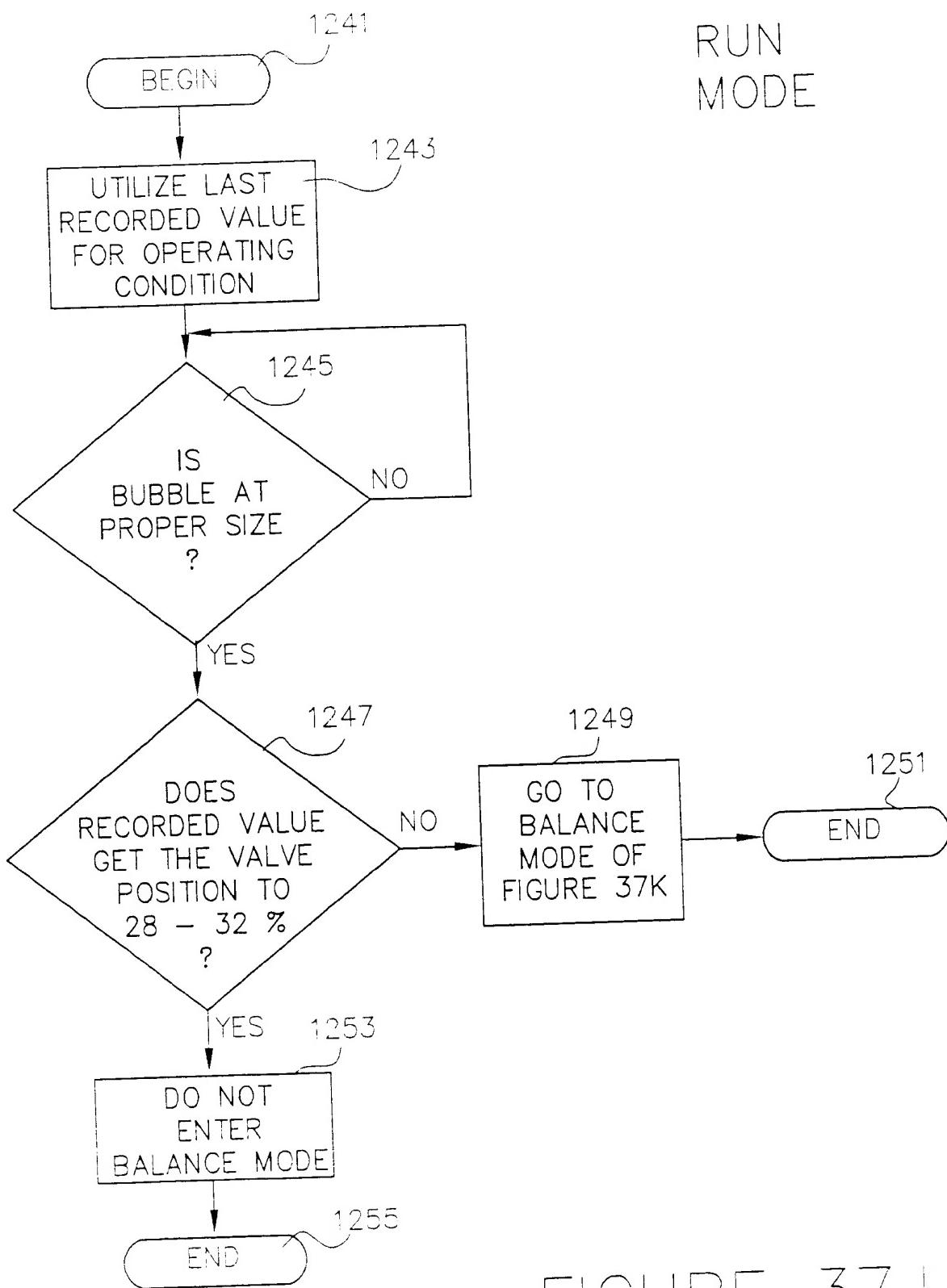


FIGURE 37J

BALANCE
MODE

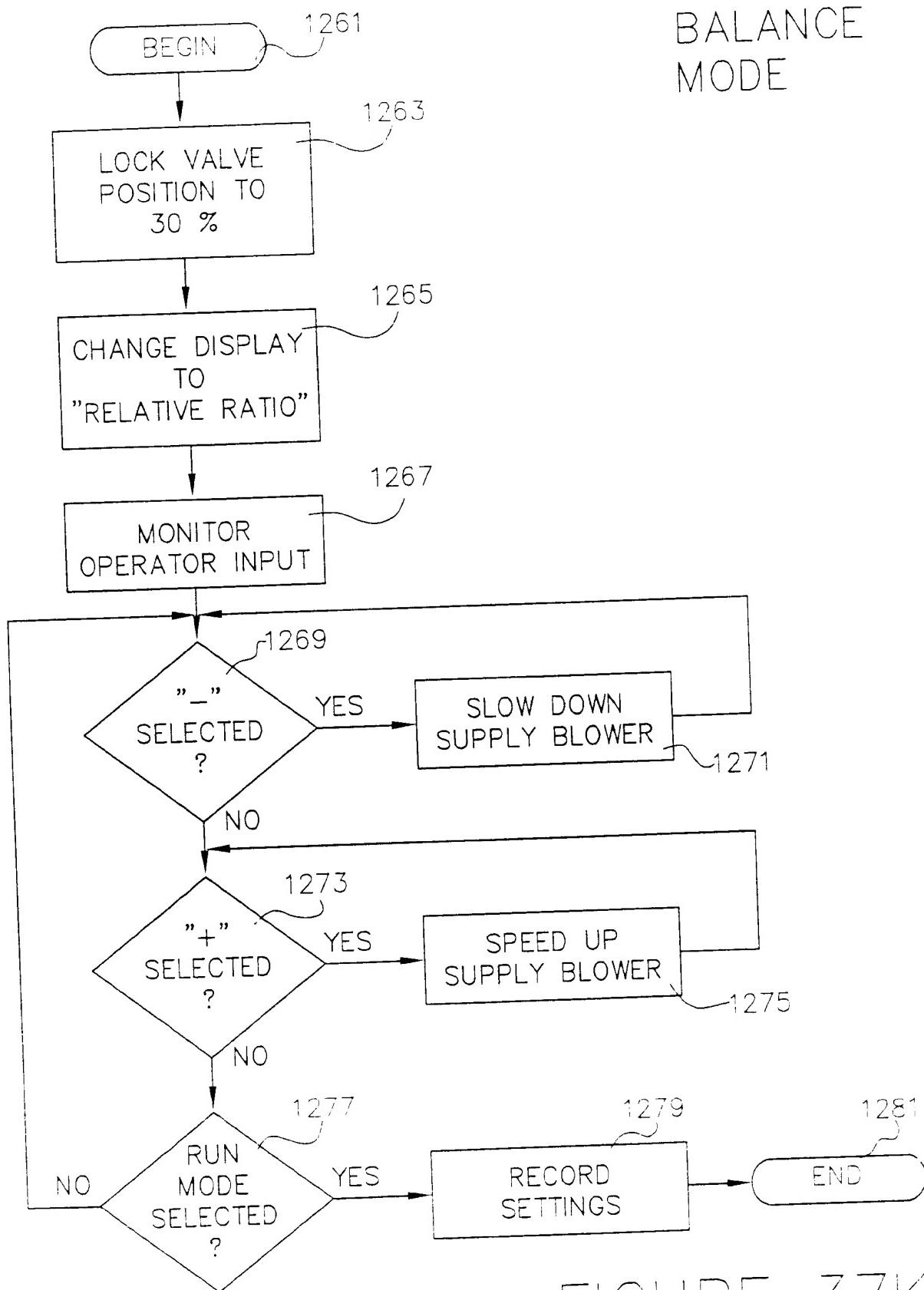


FIGURE 37K

MASTER SPEED POT SETTING	SUPPLY SPEED	REFERENCE VOLTS
A%	AC	BD
B%	AG	BF
o	o	o
o	o	o
o	o	o
o	o	o
Z%	AM	BX

FIGURE 37L

BUBBLE
BREAK
DETECTOR

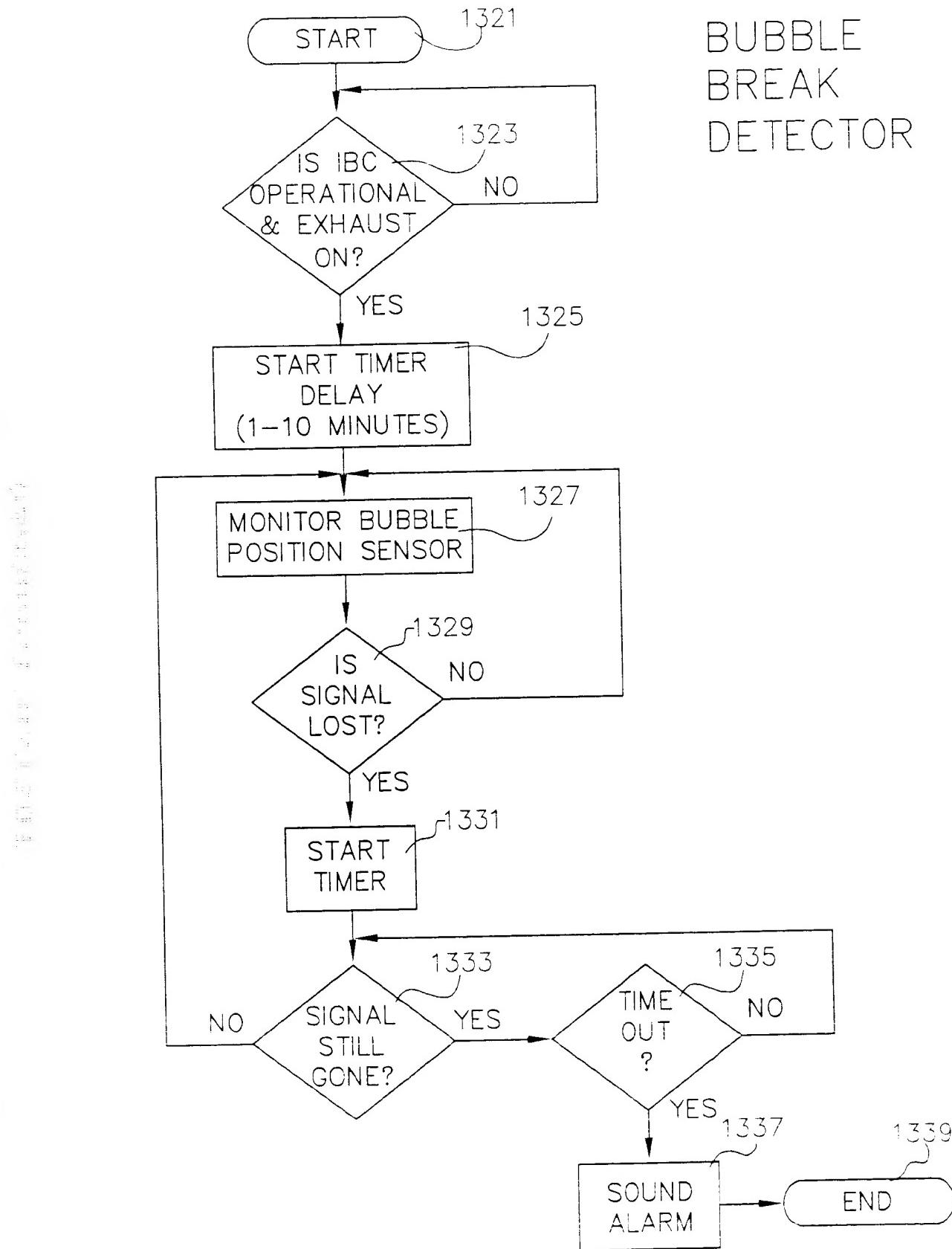


FIGURE 37M